

Packager Live Configuration

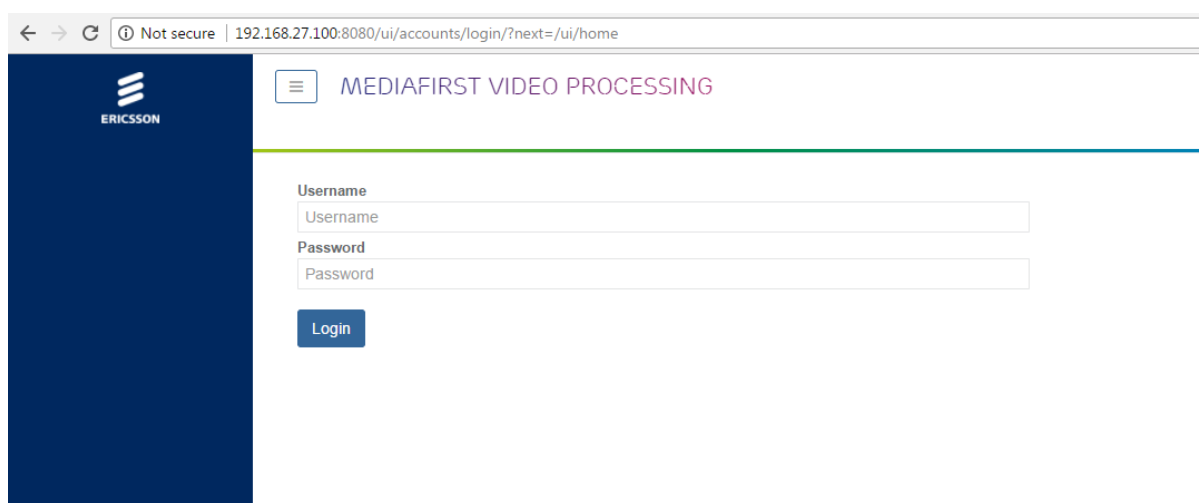
Jun 2017

Introduction


This section assumes that you or someone has completed the [Installation & OS Configuration](#) section.

Packager Configuration

First we need to login, Navigate to your device <http://serveripaddress:8080> and you will see the following login page:



← → ↻ ⓘ Not secure | 192.168.27.100:8080/ui/accounts/login/?next=/ui/home

 MEDIAFIRST VIDEO PROCESSING

Username

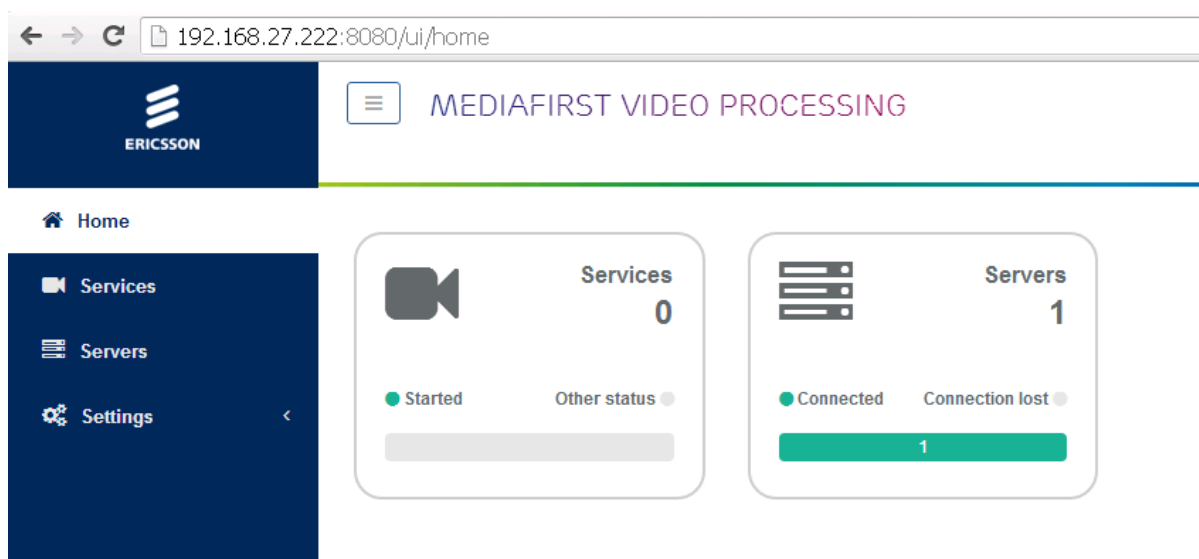
Password

Login

Login using the following:

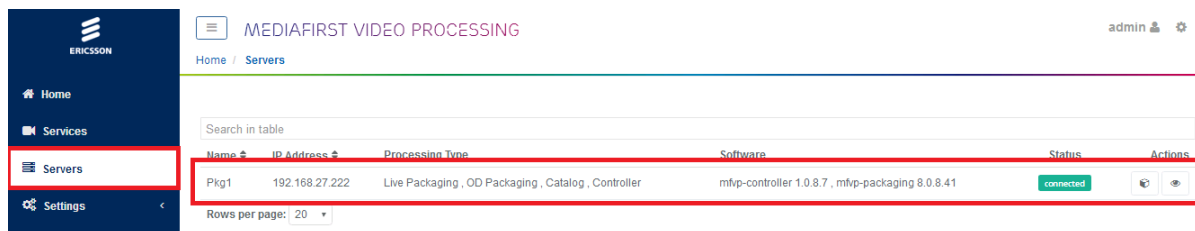
Username: admin
Password: admin

Once logged in you should see the following page:



On a new server, the Services count will be zero. Servers will be 1 (if this is a stand alone system).

Click the Servers panel.



Name	IP Address	Processing Type	Software	Status	Actions
Pkg1	192.168.27.222	Live Packaging, OD Packaging, Catalog, Controller	mfvp-controller 1.0.8.7, mfvp-packaging 8.0.8.41	connected	

Rows per page: 20

You will see your server listed, what it supports (Live Packaging, OD Packaging etc.) and the software versions.

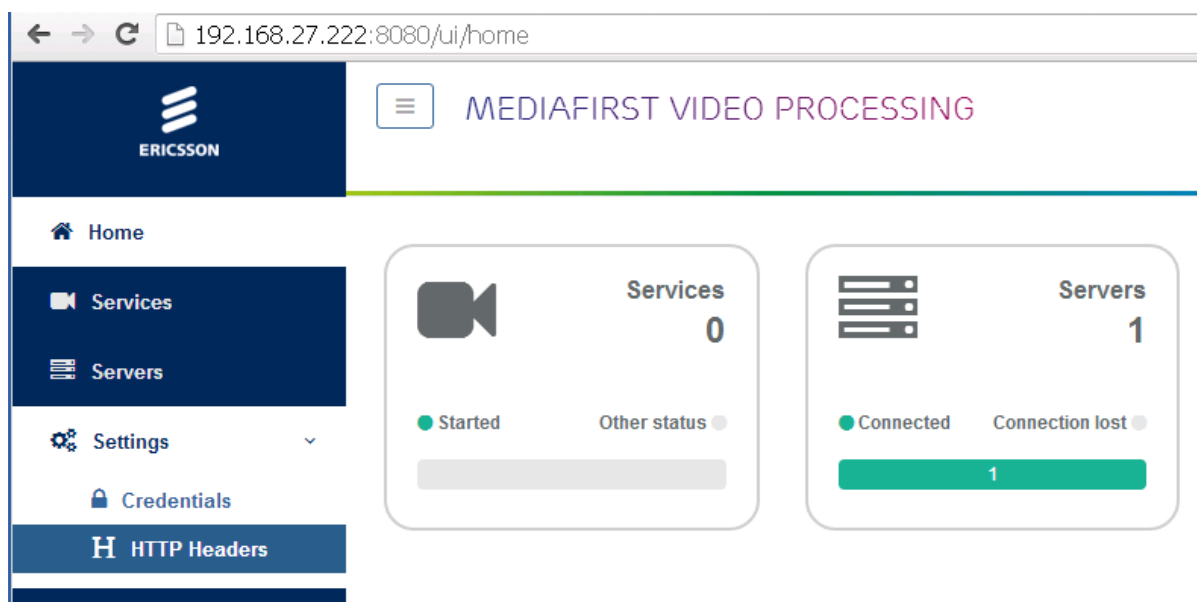
Configure HTTP Headers of the origin server

HTTP Headers define the access rules to the origin server, and the CDN caching policy.

In the example below, we simply authorize any website to access any content on the origin server. This is not a valid production configuration; however this is fine for testing.

Minimum pattern is * Access-Control-Allow-Origin:*

On the left hand menu, click 'Settings'



192.168.27.222:8080/ui/home

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Ericsson

Home Services Servers Settings Credentials HTTP Headers

Services 0

Started Other status

Servers 1

Connected Connection lost

1

Now select 'HTTP Headers'

Add a new entry using * for Url Pattern and Access-Control-Allow-Origin:* for the HTTP Headers.

#	Url Pattern	HTTP Headers
1	*	Access-Control-Allow-Origin:*

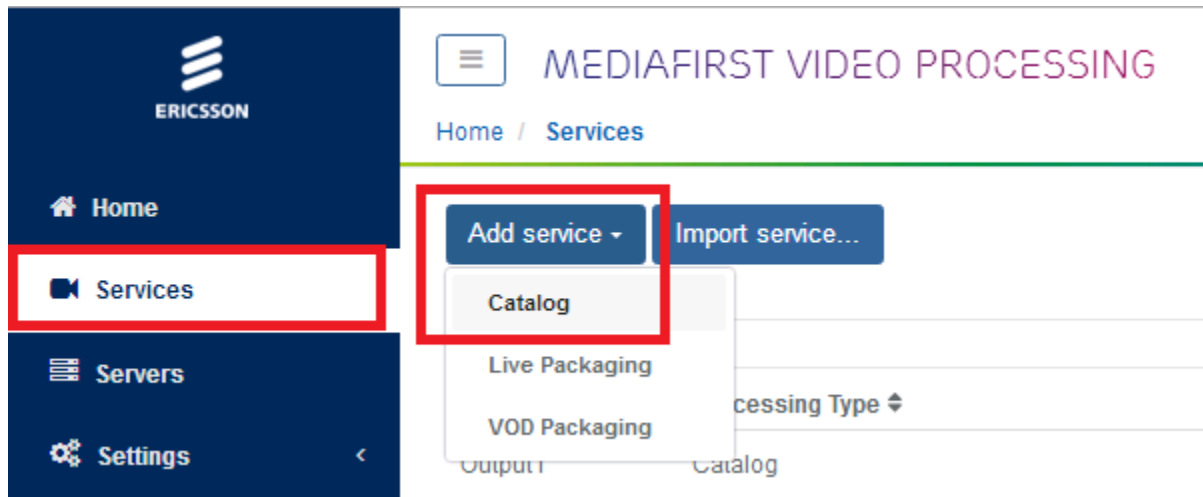
+ Add

Click 'Save and Exit'

Catalog configuration

A catalog is an output definition, so we can create a catalog for HLS, for Dash, for Smooth Streaming and add the catalog's (outputs) to our packaging service configurations.

Click add service and select catalog



This will allow the creation of a new Catalog.

Enter a name for the new Catalog.

Catalog

Name*

Output Name ↕	Type ↕	Access URL ↕	Encryption ↕	Content repl. ↕
<div>+ Add new output</div>				

Click Save and Continue (the Add New Output button will not work until you click Save and Continue).

The Catalog will need some outputs defined, you can add multiple outputs to a Catalog, so a single Catalog can have HLS, HSS and Dash outputs for example.

Click on the Add new output button.

This will open the page for new outputs.

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admin

Home

Services

Output1

Add Output

Output

Name*

HLS

Type*

HLS

Publishing

Access URL*

HLS

Playlist distribution URL

Media distribution URL

Manifests

Name

index

Filtering

+ Add manifest

Scrambling

Encryption*

None

Content Replacement

Replacement type*

Advanced parameters

GOP Per chunk*

5

Multiplex mode*

Separate video and audio

Metadata insertion

Enabled

PID

189

Cancel

Save and continue

Save and exit

Enter the following:

Name: HLS

Type: HLS (from dropdown list)

Access URL: HLS (this will form part of the URL to retrieve the packaged segments)

Click Save and Exit.

Now add a second output for Dash using the same procedure, but using Dash instead of HLS for each section.

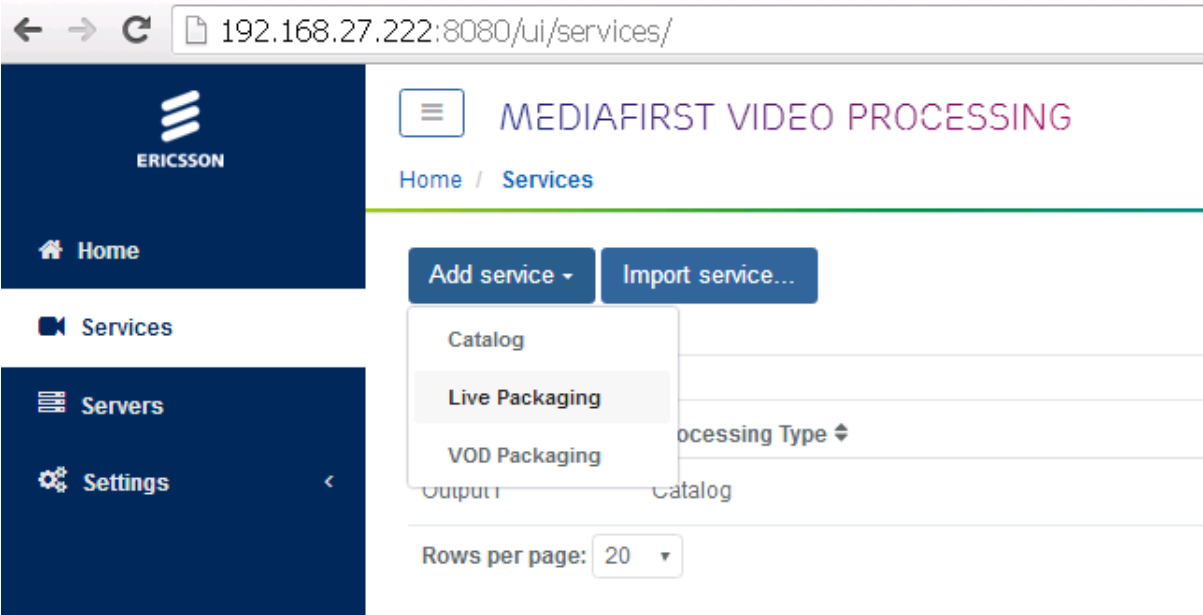
You have now configured a Catalog (an output basically) for Dash and HLS.

Add Live Packaging

To add a live packaging service, from the services panel, select Add Service, then Live Packaging.

http://cameraangle.co.uk/

Printed on 2024/05/02 14:01



On this page we can configure our packaging parameters.

MEDIAFIRST VIDEO PROCESSING

admin

[Home](#) / [Services](#) / [Add Live Packaging](#)

Ingest

Name

Service1

GOP*

2000

ms

ALD/EBP

GOP duration

GOP signalling

Sources*

IP address

239.0.200.1

Port range

10001-10004

+ Add source

Multicast sources

Publishing point

file://nas/service1

DVR duration

3600

seconds

Formatting

Catalog

Output1

Publishing

Access URL

service1

Default Content ID

Content ID Mapping

Output key

Content ID

+ Add mapping

Access URLs

- http://<host>/dash/service1/manifest.mpd
- http://<host>/HLS/service1/index.m3u8

Cancel

Save and continue

Save and exit

Name: Name of the service

GOP Duration: GOP Duration of incoming TS

GOP Signalling: How the GOP Boundaries are signalled. EBP for Ericsson sources.

IP Address: Multicast to tune to.

Port Range: ABR Port range.

Publishing Point: This is the file location, for local we are using the NAS drive we configured earlier, sub folders should be automatically created. file://nas/service1 for example.

DVR Duration: How far back we can rewind.

Catalog: Select your output Catalog here

Access URL: a name that will form part of the access URL.

At the bottom of this page you can see the full access URL(s).

Access URLs

- http://<host>/dash/service1/manifest.mpd
- http://<host>/HLS/service1/index.m3u8

So these are constructed from the Interface IP <host>, the Catalog Output /HLS, the Access URL in the publishing service /service1 and the index name specified in the Catalog /index.m3u8.

Generally the server will have multiple network interfaces, and the packaged stream can be accessed from any of them.

Start the Service

To start the service click the play button next to the associated service. The status will change to started.

Add serviceImport service...

Search in table

Name	Processing Type	Stats	Alarms	Servers	Status	Actions
Output1	Catalog					
Service1	Live Packaging				started	

Rows per page: 20

Use SSH to check the /opt/mfvp/mnt/nas folder. You should see a folder has been created with the service name.

```
ls
service1
```

Now check the service folder, and you will see something similar to the following:

```
drwxr-xr-x. 2 envivio envivio 4096 Jun 19 08:59 1
drwxr-xr-x. 2 envivio envivio 4096 Jun 19 08:59 1497863311596
drwxr-xr-x. 2 envivio envivio 4096 Jun 19 08:59 2
drwxr-xr-x. 2 envivio envivio 4096 Jun 19 08:59 3
drwxr-xr-x. 2 envivio envivio 4096 Jun 19 08:59 4
lrwxrwxrwx. 1 envivio envivio  10 Jun 19 08:55 index -> index.tmp0
-rw-r--r--. 1 envivio envivio  48 Jun 19 08:55 index.tmp0
```

There are four folders here for the ABR recordings (these are not the output segments, just a mezzanine format recording). There are four folders because my port range was 10001-10004.

If you look inside one of the folders 1 to 4 you will see the recordings.

```
100.ts 112.ts 124.ts 136.ts 148.ts 15.ts 22.ts 34.ts 46.ts 58.ts 6.ts 81.ts 93.ts
101.ts 113.ts 125.ts 137.ts 149.ts 160.ts 23.ts 35.ts 47.ts 59.ts 70.ts 82.ts 94.ts
102.ts 114.ts 126.ts 138.ts 14.ts 161.ts 24.ts 36.ts 48.ts 5.ts 71.ts 83.ts 95.ts
103.ts 115.ts 127.ts 139.ts 150.ts 162.ts 25.ts 37.ts 49.ts 60.ts 72.ts 84.ts 96.ts
104.ts 116.ts 128.ts 13.ts 151.ts 163.ts 26.ts 38.ts 4.ts 61.ts 73.ts 85.ts 97.ts
105.ts 117.ts 129.ts 140.ts 152.ts 164.ts 27.ts 39.ts 50.ts 62.ts 74.ts 86.ts 98.ts
106.ts 118.ts 12.ts 141.ts 153.ts 16.ts 28.ts 3.ts 51.ts 63.ts 75.ts 87.ts 99.ts
107.ts 119.ts 130.ts 142.ts 154.ts 17.ts 29.ts 40.ts 52.ts 64.ts 76.ts 88.ts 9.ts
108.ts 11.ts 131.ts 143.ts 155.ts 18.ts 2.ts 41.ts 53.ts 65.ts 77.ts 89.ts
109.ts 120.ts 132.ts 144.ts 156.ts 19.ts 30.ts 42.ts 54.ts 66.ts 78.ts 8.ts
```

10.ts	121.ts	133.ts	145.ts	157.ts	1.ts	31.ts	43.ts	55.ts	67.ts	79.ts	90.ts
110.ts	122.ts	134.ts	146.ts	158.ts	20.ts	32.ts	44.ts	56.ts	68.ts	7.ts	91.ts
111.ts	123.ts	135.ts	147.ts	159.ts	21.ts	33.ts	45.ts	57.ts	69.ts	80.ts	92.ts

Prerequisites on Encoder configuration for Live streams

One or more input stream(s)
Single video stream (H.264) per port
Audio stream (AAC-LC)
ALD or EBP GOP Signaling
All video bitrates share the same PID
All audio of a given language share the same PID
All audio bit rates the same.
All Hours in UTC Time
Encoder and packager are using the same NTP server.

From:
<http://cameraangle.co.uk/> - WalkerWiki - wiki.alanwalker.uk

Permanent link:
http://cameraangle.co.uk/doku.php?id=packager_live_configuration

Last update: 2023/03/09 22:35

