# **MFEL Localisation (BETA)**

#### Jan 2017

The MFEL has some new functionality that is being developed for localisation. This allows the MFEL to perform the following tasks:

- Switch out video to a flash file held on the local drive.
- Add scrolling text to current video.
- Add an animated logo.
- Squeeze the active video down to reveal a background graphic.

This will allow for the MFEL to perform local functions such as blackouts.

## **Required Files**

To get the localisation working, you will need the following files (code versions may change of course). Please bear in mind that once this functionality becomes standard, most of this will not be required.

```
Software -
    Flash Installer - install-flashExtractor-1.00.00-001 Cent0S-7.1.1503.run
   MFEL Software - envivio-muse-7.00.04.851.el7.x86_64.run
Flash Files
    bannerWithVideo1080-50fps.swf
    bannerWithVideo720-50fps.swf
    crawler1080-50fps.swf
    crawler2160-50fps.swf
    crawler720-50fps.swf
    logo1080-50fps.swf
    logo720-50fps.swf
    squeeze1080-50fps.swf
    squeeze2160-50fps.swf
    squeeze720-50fps.swf
Configuration Files -
    config(18).xml
    8080.conf
    8181.conf
```

#### Preparation

Copy all the files listed in the 'Required Files' section above to the MFEL /home folder. You can either mount a USB Stick and copy them from there, or use WinSCP or MobaXterm to copy the files using a Windows PC and SSH.

Once the files are in the /home location, we need to set the file permissions, mainly we need to grant execute rights for the two installers.

From the command line, assuming you are in the home folder, use:

chmod 755 \*.run

If you do a directory listing 'll', you should see the following:

-rw-r-r-. 1 root root 1691 Jan 20 06:04 8080.conf -rw-r-r-. 1 root root 1880 Jan 20 06:04 8181.conf -rw-r-r-. 1 root root 29777 Jan 20 06:04 config (18).xml -rwxr-xr-x. 1 root root 178869366 Jan 20 05:53 envivio-muse-7.00.04.851.el7.x86\_64.run drwxr-xr-x. 2 root root 4096 Jan 23 00:56 Flash -rwxr-xr-x. 1 root root 23285640 Jan 20 05:52 install-flashExtractor-1.00.00-001\_CentOS-7.1.1503.run

### install Flash Software

As the files that will be used for the localisaton are all in Flash format (.swf) we need to install the Flash software on the MFEL.

From the command line, use:

```
./install-flashExtractor-1.00.00-001_CentOS-7.1.1503.run
```

#### Install MFEL Software

For this demo, we are using specific software code. As I have said previously, this code is subject to change, and eventually will be part of the standard MFEL build.

From the command line, use:

./envivio-muse-7.00.04.851.el7.x86\_64.run

#### License the Unit

You will have to speak to Support for a License. There is no special licensing for the localisation, you just need a standard MFEL license.

#### **Copy Files to Correct Locations**

We need to ensure that the correct files are in the correct locations for this to work. Copy the files listed below to their relevant locations.

Config Files:

```
Copy 8080 and 8181 to /opt/envivio/data/muse/conf/automationsystem (overwrite existing files) sudo cp *.conf /opt/envivio/data/muse/conf/automationsystem
```

Copy flash files to correct location, navigate to the folder where the Flash files (.swf) are held

```
cp *.swf /opt/envivio/mnt/automation
```

```
bannerWithVideo1080-50fps.swf
bannerWithVideo720-50fps.swf
crawler1080-50fps.swf
crawler2160-50fps.swf
crawler720-50fps.swf
logo1080-50fps.swf
squeeze1080-50fps.swf
squeeze2160-50fps.swf
squeeze720-50fps.swf
```

If you look at the Flash files, they are all 50fps, some are full HD 1080, some 720 and there are a couple of UDH also. So with these files we cannot demo this functionality in SD (that I am aware of).

Reboot the encoder

## **Configure the MFEL Encoder**

There is a pre-build configuration file that we can use to configure the encoder, this will add a two regional services. To configure this upload the config(18).xml to the MFEL.

From the web interface, navigate to System, Configuration.

📁 MediaFirst Video Processing	Encoding Live
System CPU Mem 4	Configuration
Configuration	
Performance	Encoder configuration
Access control	Download encoder configuration: Download
Credentials	Apply encoder configuration: Choose File No file chosen Apply
Alarms	Reset continuation to detault. Reset
Logs	Reserveningulation to delaute Reserve
PlayReady	
Shutdown / Restart	MPEG-2 TS input loss settings
Update	Signal loss timeout: 1000 ms
About	Elementary stream loss timeout: 4000 ms
Charlesson	Enable failover on ES loss:
Statmux	Apply

Use the 'Choose File' to select the file to be uploaded and click 'Upload'.

Once uploaded, we can change the Input and Output multicasts and we are ready to test.

## **Default Configuration**

The configuration file we loaded (config (18).xml) has a service with two regions. There are a few tests that we can do with this default configuration. Before starting, the National and both Regional services need to be locked to a valid IP Input (so that's three services coming in).

S MediaFirst Video Processing			Encoding L
System	CPU Mem 🗖 🛕	NationalChannel	Delete   Add profile   Add alternate content servic
Statmux		Name	NationalChannel
NationalChannel	•	Туре:	MPEG-2 & H.264 over IP: HD •
Video: Vid0101 - PID 0x0065 - H.264		Sources	
Audio: Aud0101 - PID 0x0066 - MPEG-1 Layer II (eng) - None		Display secondary source:	
Audio: Aud0102 - None		Display secondally source.	
Audio: Aud0103 - None		Primary source	ath2 /11 0 221 1)
Audio: Aud0104 - None		ivetwork interface:	(enz (11.0.251.1)
Audio: Aud0105 - None			220.4.2.2
Audio: Aud0106 - None		Address	239.1.2.2
Audio: Aud0107 - None		Port	. 1234
Audio: Aud0108 - None		Multicast source IP adresses:	(e.g. IP1,IP2,IP3)
Region 1 - DVB Extreme - CBR - 8480 kbps	00:06:35 - 8479 kbps 💽	Enable FEC support:	
Region2 - DVB Extreme - CBR - 8434 kbps	00:06:34 - 8479 kbps 💽	Status	
Alternate content: Regional1Channel	0	Status	: la Receiving
Alternate content: Regional2Channel	0	Active source:	: primary 😹
			Rescan

If you want to see regional service switching, each of the three multicasts (National, AlternativeRegional1 and AlternativeRegional2) need to be different content, or you won't see the switch. If you just want to test the effects (Crawler, Squeeze and Banner) then they can all be the same.

WARNING!!! Unless all three services are locked, none of the services will start.

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## **Automation Simulation Simulator**

There is a separate page that allows the demonstration of the regional switching that is found on a separate port. The page can be found at:

MFEL\_IPAddress:8080 MFEL\_IPAddress:8181

These are the two config files that were uploaded earlier.

$\leftarrow \rightarrow C$ (1) 192.168.201.231:8080	
envivio.	
Connection           Mode         SCTE 30 port         5168         DPI ID         1           Mode         SCTE 104 vort         5167         UMP ID         Region1Channel           Channel name         Region1Channel         Channel         Channel	disconnect
Automation           Select input                    seq num             1             input ID             Region11d	apply clear all batch run event ID 0 batch run 0 delay (ms) 1000 run remove
Select input seq num 1 input ID NationalId	event ID 0 batch run 0 delay (ms) 1000 run remove
Insert template   seq num 1 material ID logo1080-50fps.swf field namefield value duration 00:00:59:00 layer 1	event ID 0 betch run 0 delay (ms) 0 run remove
Insert template     •       seq num     2       duration     00:00:59:00       layer     2	event ID 0 betch run 0 delay (ms) 0 run remove
Insert template  seq num 3 material ID squeeze1080-50fps.swf field namefield value  duration 00:00:59:00 layer 3	event ID 0 batch run 0 delay (ms) 0 run remove
Insert template  seq num  4  material ID  banner/WithVideo1080-50fps.swf  field namefield value  add  ilever  4	event ID 0 betch run 0 delay (ms) 0 run remove
add	

Above are the different possibilities for the regionalisation options.

For this page to work, you must click the 'Connect' button in the top right of the Window. If for any reason the 'envivio-muse' service is restarted, or the encoder is restarted, you will have to reconnect this page as it does not start automatically (yet).

#### **Switching Regional/National Programme**

The first two sections of the automation page are for the switching to, and switching back from the National / Regional programs.

Automation	spply clear all batch run
Selectingut • we can it way 0 Pogentit	event ID 0 betch un delay (ms) 1000 rem remove
Select report    prove s per 0 linkinged	event ID 0 betah run deley (ms) 1000 remove

To switch a service just click the 'Run' button in the relevant section.

Warning!!! Do not click remove The remove function removes the settings (some users thought it removed or 'stopped' regional switch, like a revert function).

## Using the OnScreen Tools

The rest of the sections are for on screen effects.

Insert template         •           seq num         1         Imaterial ID duration layer         Iogo1080-50fps.swf	field namefield value add	event ID 0 batch run 0 delay (ms) 0 run remove
Insert template   seq num 2 material ID crawler1080-50fps.swf duration 00:00:59.0C layer 2	field name field value           SWF_TEXT_01         HELLO WORLD         X           add         X         X	event ID 0 batch run 0 delay (ms) 0 run remove
Insert template   seq num  3  material ID  squeeze1080-50fps.swf  duration  00:00:59.00  layer  3	field namefield value add	event ID 0 batch run 0 delay (ms) 0 run remove
Insert template   seq num  4  material ID bannerWithVideo1080-50fps.swf duration 00:00:59.00 layer  4	field namefield value add	event ID 0 batch run 0 delay (ms) 0 run remove

The four sections here are:

Logo	Dislays a Flash logo, can be static or animated
Crawler	Displays a ticker tape style message on the screen
Squeeze	Squeezes the active video down to approx 1/5 size to reveal a backdrop
Banner	Displays a Banner

Exactly the same as the regional and national selection, just click the 'Run' button to start. These are a once only event. So if you use say the Crawler. The text will crawl along the screen, then the event has ended, there is no concept of switching back from that mode.

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