INNES

Application Note

Script infrared/keyboard/pass-through CEC

for PlugnCast G3

1   Introduction

This manual is explaining how to play specific medias on a remote control key press or USB keyboard key press:

- key **1 to 9** on the white remote control, 20 buttons (provided by Innes)
    - o   Prerequisite: a infrared sensor has to be installed on the IR connector and the infrared activated on the device.
- key **1 to 9** on a USB keyboard,
    - o   Prerequisite: an USB keyboard has to be plugged on the USB connector
- Key **Red, Green, Yellow, Blue** on the monitor remote control
    - o   Prerequisite on the monitor
        - ▪   the CEC has to be properly supported on the HDMI connector of the monitor
        - ▪   A *CEC Set_Input_Source* may be required to support properly the CEC. It can be done by changing the HDMI input source and returning to the right input source
        - ▪   the monitor manufacturer has properly routed the color key code towards the CEC pass-through. For example, some LG Smart monitor manufacturer have routed the Green key on the "ON" function, and the Red key on the "OFF" function. Consequently, the CEC pass-through is not working for these monitor
        - ▪   any OSD screen has to be prompted
    - o   Other key codes supported on the CEC pass-through like **FW, RW, Left, Right, Up, Down** may be supported in the **keypadmedia-g4-V1.10.10.js** but at this time they are not implemented. For further information, contact support@innes.pro

2   Delivery content

Gekkota 3

keypadmedia-V1.10.12.js	playout script

	⚠ *With Gekkota 3, the script **keypadmedia-V1.10.12.js** needs to be renamed **keypadmedia.js***
keypadmedia.txt	list of the media to play (in the main zone)

Gekkota 4

keypadmedia-g4-V1.10.10.js	playout script
keypadmedia.txt	list of the media to play (in the main zone)

3   Playout script

Then the playout script needs to be inserted inserted in your PlugnCast G3 **Playouts > Script to execute.**

The file **keypadmedia.txt** is the file containing the list of media to be played in an alternative media at the place of your medias list played in main zone, depending on key number pressed. You have to fully adapt this file to your needs.

4   Prerequisites

The following conditions must be filled:

- PlugnCast G3 3.12.33 (or above)
- Devices:

Devices	Playout script	Playzilla	*Gekkota*		
	keypadmedia-g4.js		*USB keyboard ** Keys: **1, 2, 3, 4, 5, 6, 7, 8, 9**	*White Remote control 20 buttons ****** Keys: **1, 2, 3, 4, 5, 6, 7, 8, 9**	*Monitor remote control *** Keys: **Red, Yellow, Blue, Green ******
DMB400	V1.10.10 or above	V4.11.13	✔ V4.10.10 or above	✔ V4.10.10 or above	✔ V4.12.10 or above
SMA300	V1.10.10 or above	V4.11.13	✔ V4.10.10 or above	✔ V4.10.10 or above	✔ V4.12.10 or above

Devices	Playout script	Playzilla	*Gekkota*		
	keypadmedia.js		*USB keyboard ** Keys: **1, 2, 3, 4, 5, 6, 7, 8, 9**	*White Remote control 20 buttons* Keys: **1, 2, 3, 4, 5, 6, 7, 8, 9**	*Monitor remote control *** Keys: **Red, Yellow, Blue, Green ******
SMA300, DMB300, DMC200 ***	V1.10.12.js or above	V3.10.10	V3.12.33 or above	V3.12.33 or above	✘
SMT210, SMA200, SMP200, MS-Windows	V1.10.12.js or above	V3.10.10	V3.12.33 or above	✘	✘

Comments
* The USB keyboard needs to be plugged on the device
** The monitor needs to support the CEC on the used HDMI connector
*** DMC200 with EDPL V11 or above
**** The monitor has to transmit properly the key code in CEC pass-through

***** *Note in case using the remote control: in case you don't have a INNES remote control, a specific one (white/20 keys) needs to be ordered to INNES. The infrared sensor (type 2238) has to be plugged on « IR » Jack35 connector (don't mistake by plugging the infrared sensor on the audio Jack35 connector). The « IR » connector has to be configured as « infrared » (and not « GPIO » input/output). For more information, please refer to Gekkota application note GPIO configuration*

5   Description

5.1   Infrared, USB keyboard or CEC pass-through

The script and the text file allows to add the possibility to play a specific media when a key is pressed

- **Between 1 and 9**
    - o   Through the infrared remote control or
    - o   With an USB keyboard
- **Red, Green, Blue, Yellow**
    - o   Through the HDMI connector of a monitor supporting properly the CEC
    - o   Some monitors may have routed the **Red** key and the **Green** key for other topic and so are not routed towards the HDMI/CEC connector. In this case the Red key and the Green key may not work with this playout script.

5.2   Supported media type when playing specific media

The specific media type played when a key is pressed can be

- Maff,
- Video,
- PDF,
- Image,
- WGT,
- MS-PowerPoint (Please refer to Gekkota supported media and performances).

5.3   « 0 » : specific key

When pressing the « 0 » key, the specific media which was running stops to be played and let the medias of the main zone to be played back again.

6   Configuration

Prepare the list of the medias to be played each time a key is pressed and describe their behaviour

- o   Behaviour « **media** » : played once (and entirely).
- o   Behaviour « **infinite** » : played infinitely (loop back at the end).

For example :

Key number	Behaviour	media pathfile name
0	Not applicable	Not applicable because the « 0 » key has a special behaviour
1	infinite	/Script/keyboard infrared/medias/video.mp4
2	media	/Script/keyboard infrared/medias/image.png
3	media	/Script/keyboard infrared/medias/agenda.maff
4	media	/Script/keyboard infrared/medias/widget.wgt
5	media	/Script/keyboard infrared/medias/PDF.pdf
6	media	/Script/keyboard infrared/medias/powerpoint.pptx
7	media	/Script/keyboard infrared/medias/education.maff

8	media	/Script/keyboard infrared/medias/video2.mp4
9	media	/Script/keyboard infrared/medias/image2.jpg
red	media	/Script/keyboard infrared/medias/slidemaker.wgt
yellow	media	/Script/keyboard infrared/medias/slidemaker2.wgt
blue	media	/Script/keyboard infrared/medias/weather banner.maff
green	media	/Script/keyboard infrared/medias/world clock.maff

- Open PlugnCast G3
- In library, create a directory (ex : to **/Script/keyboard infrared/**) and drop the files
  - **keypadmedia.js** and
  - **keypadmedia.txt**
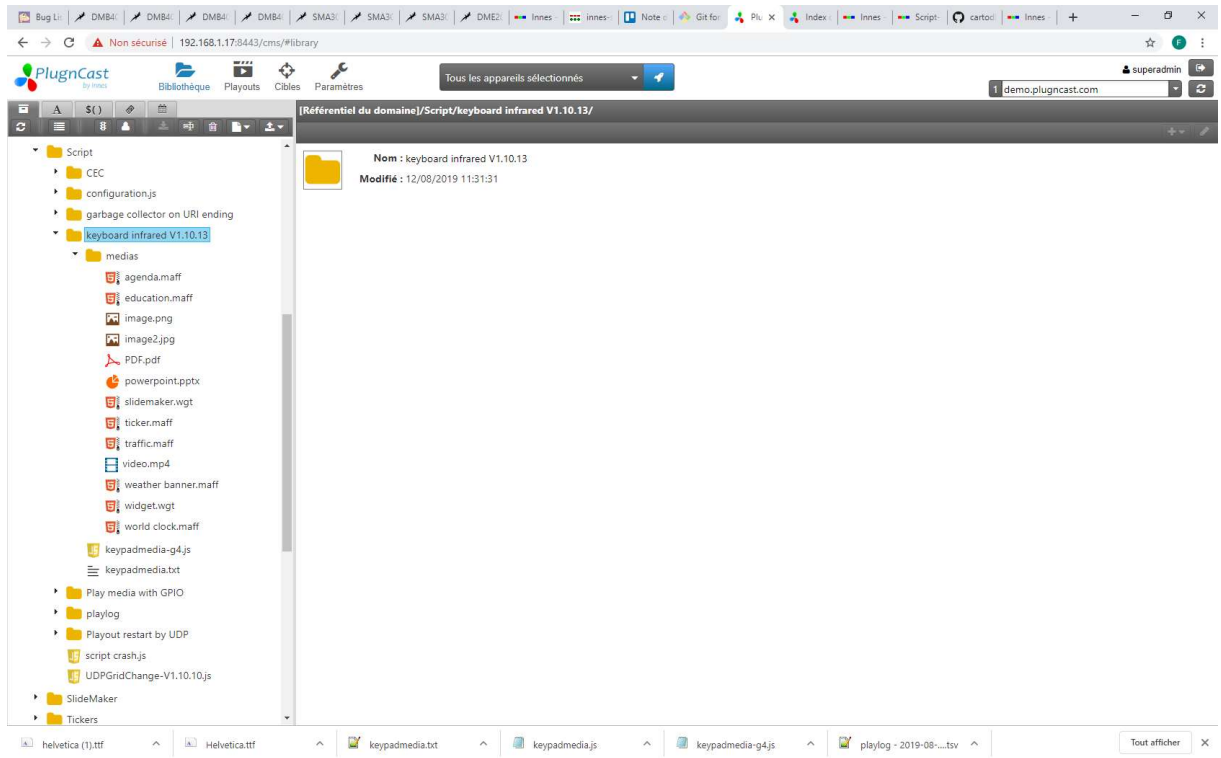
- In the directory **/Script/keyboard infrared/,** create a directory **medias/**
- Copy all the medias (to be played when a key is pressed) in **/Script/keyboard infrared/medias/**
- Edit **keypadmedia.txt** and fill it according to the table above (as example)

« Keypadmedia.txt » example :

```
1,infinite,/Script/keyboard infrared/medias/video.mp4
2,media,/Script/keyboard infrared/medias/image.png
3,media,/Script/keyboard infrared/medias/agenda.maff
4,media,/Script/keyboard infrared/medias/widget.wgt
5,media,/Script/keyboard infrared/medias/PDF.pdf
6,media,/Script/keyboard infrared/medias/powerpoint.pptx
7,media,/Script/keyboard infrared/medias/education.maff
8,media,/Script/keyboard infrared/medias/video2.mp4
9,media,/Script/keyboard infrared/medias/image2.jpg
red,media,/Script/keyboard infrared/medias/slidemaker.wgt
yellow,media,/Script/keyboard infrared/medias/slidemaker2.wgt
blue,media,/Script/keyboard infrared/medias/weather banner.maff
green,media,/Script/keyboard infrared/medias/world clock.maff
```

⚠ *Red, yellow, blue, green are not supported on Gekkota 3*

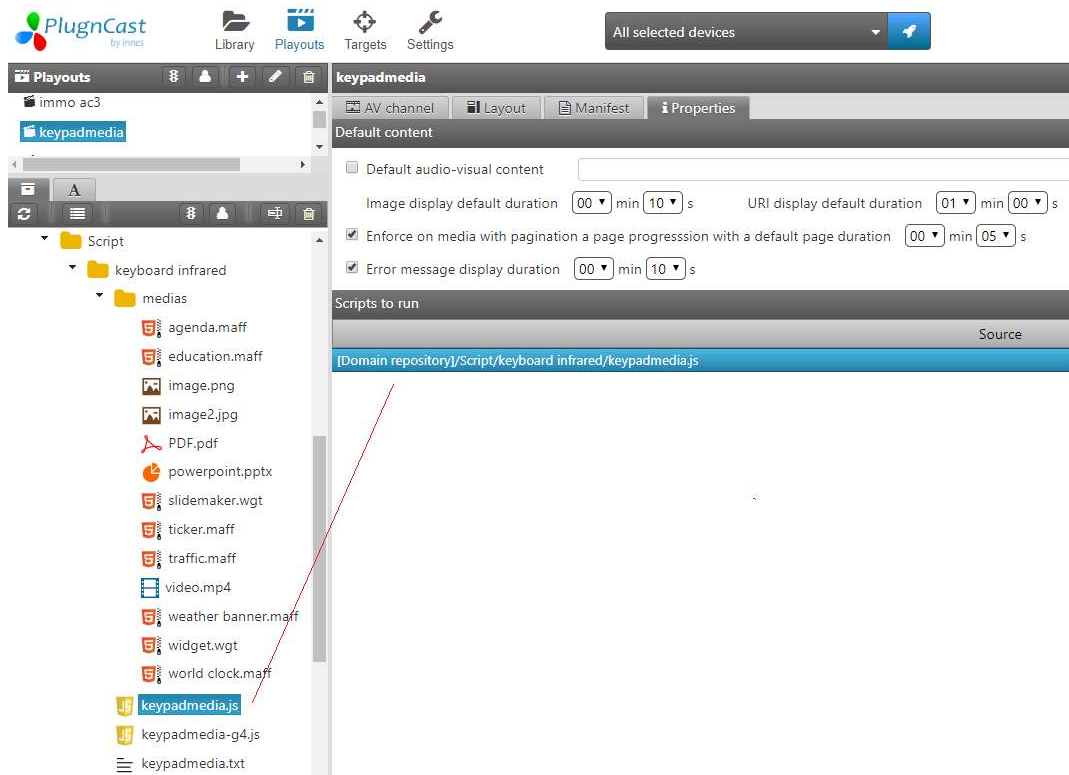- Create a playout audio-visual as usual
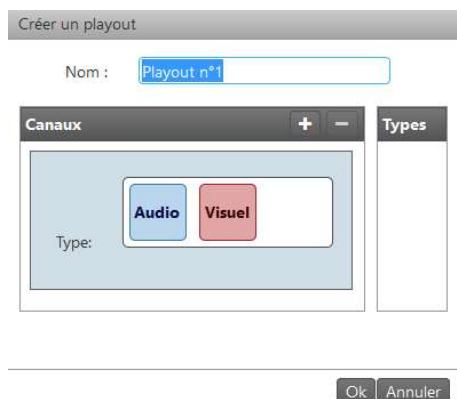
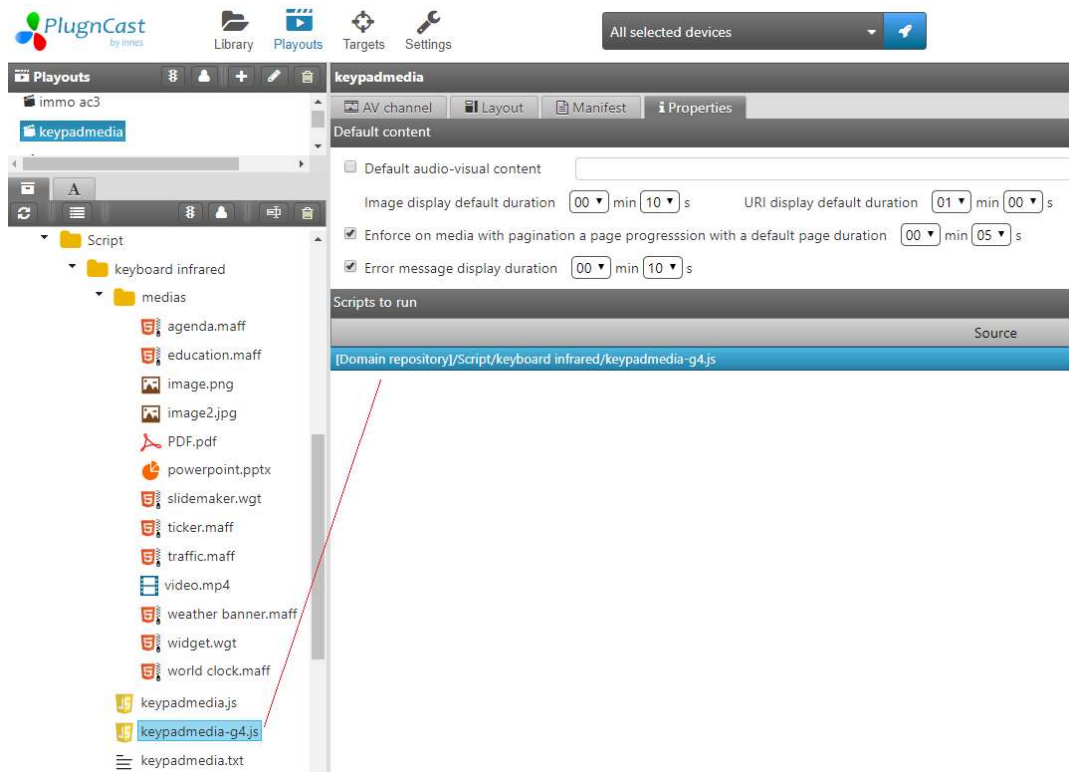- Create different zones (if required) and organize your layout
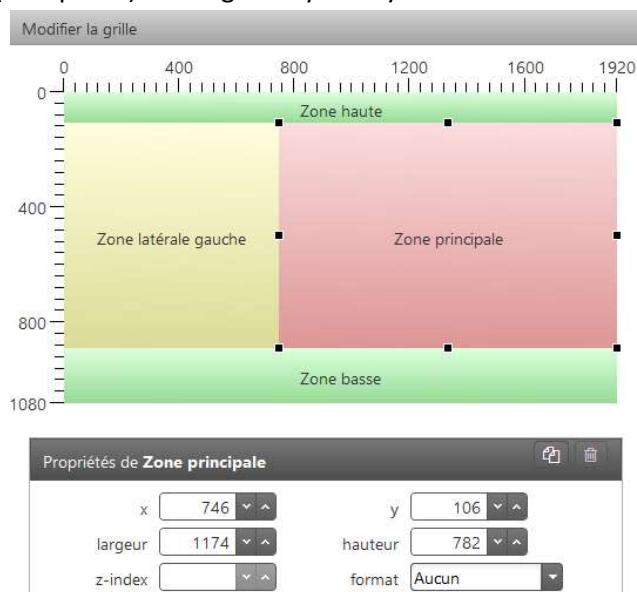
Note : the specific media played when a key is pressed will be played in main zone

- Organize your playout (as usual)
- Drag'n drop the file **keypadmedia.js** from
  - **Library** to
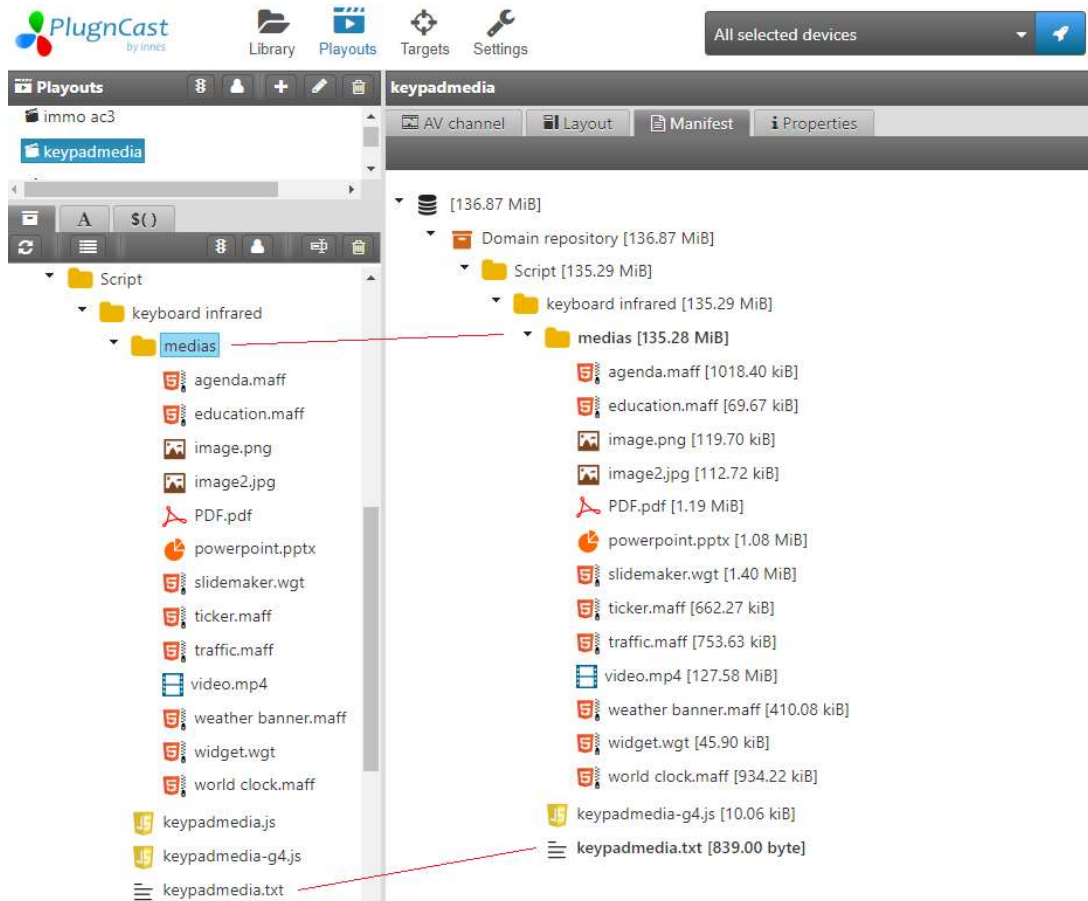 - **Playouts > Propriétés > Scripts à exécuter**

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- Drag'n drop all the specific medias (needed when key is pressed) from
  - **Library** to
  - **Playouts > Manifest**
- Drag'n drop **keypadmedia.txt** from
  - **Library** to
  - **Playouts > Manifest**

- Publish your playout and wait for while, the time for the player to take and play this playout
- Depending on what you have programmed,
  - Press on the appropriate key number to play the wished media
    - With the white remote control 20 buttons
      - Key 1 to 9
      - Key 0 to return to the media of the main zone
    - With the USB keyboard
      - Key 1 to 9
      - Key 0 to return to the media of the main zone
    - With the monitor remote control
      - Red, Green, Yellow, Blue