I D4C proudly presents…

Hercules

for controlling SSDR FlexRadio by a
«*Hercules DJControl Starlight*»
console for Windows

V.0.9c 20240215

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SLICE A

SLICE B

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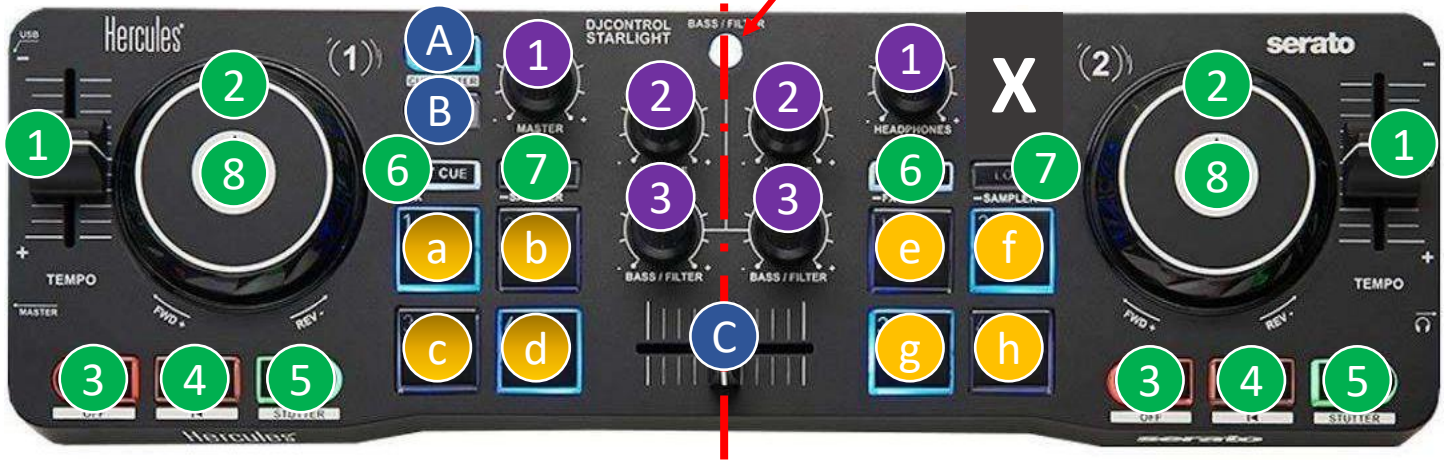
SLICE A

Switch „on“

SLICE B



-1- RIT
-2- Turn for VFO
-3- PTT Slice X
-4- RX-A/B Tx Antof-A/B
-5- Toggle Tx Ant1/2
-6- Select CueBtns
-7- Select LoopBtns
-8- Tap for center in Pan

Cue-Btns
a) Mode
b) Filter
c) PanBW
d) Step-Size

Loop-Btns Sl.A
a) CWMakro1
b) CWMakro2
c) CWMakro3
d) CWMakro4

Sl.B
e) CWMakro5
f) CWMakro6
g) CWMakro7
h) CWMakro8

-1- AGC-Lev.
-2- Volume
-3- Variable Filter

Global:
-A- MON
-B- Create SliceSet A|B
-C- Pan L/R Sl.A/B

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«Switch&Control up to 8 different FlexRadios»

Your flex is in your local network? PERFECT!

You think about portforwarding or DynDns? FOREGT IT! SECURITY ISSUE!!!

Take a look at zerotier! With Zerotier, you can have a secure VPN + SmartLink is not needed (Layer-2 VPN, all is running local)

Questions? Mail us!

Configuration-Mode <marked actors only>

A Press to enter config mode

Preparation Step 1: „Adjust public/globals.json“
1. configs => How many configs shd be mapped (1…8)
2. default => which one shd be default? Must be less or equal configs!

Just 1 Flex? Set „configs“ : 1 & „default“ : 1 in globals.json and edit just the file „config1.json“ in Step 2.

Step 2: „Edit each public/config<nr>.json
1. Edit each of the config<nr> you want to use.
2. Start with config1.json
3. Next config2.json and so on until <nr> = Globals.configs!!!

What must i edit in a config<nr>.json?
„FlexIP“ : „<ipadress of the flex you want to control>“, e.g. „192.168.0.100“

Should i edit the other properies?
Answer:
NO NO NO NO. If you want to remap functions to actors, thats done in the hercules.xlsx. Normally you do not have to change anything! Screw it up on your own ☺

Up to 8 differerent radios!
config<nr>.json for each flex => <nr> starting at 1

C - CUE	**L-Loop**
1,2,3,4	5,6,7,8

After entering configuration mode (base led = PURPLE) and selecting your config, controller is trying to connect to the radio. If there is an error, base led will turn RED.

If all went well, it connects and base led will stay GREEN

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«Layer 1 and Layer 2 – Double your controls! »

ADVANCED

Select Layer off/Layer 1 & blue/Layer 2

B Press to change layer

You want more! More! More?
- Maybe you want to have more functions mapped
- Maybe you want to have on mapping for contest, one mapping for dx
- Maybe you enjoy screwing up everything,hi

Layer 1 will use the mapping in sheet „midimap“ of public/hercules.xlsx

Layer 2 will use the mapping in sheet „midimap2“ of public/hercules.xlsx (default: same as in Layer 1)

WARNING
- Keep in mind: Less is more. This is an add on, not an add-everything-is-possible thing :P
- Not every function can be remapped to everything, especially if it‘s coming down for led-btns-states
- Best praticse: reduce complexity, but extend to 2 layers.
- Having less used or new functionality makes more sense to have on layer2
- We learn from you: Request new funcionality and it might show up soon ☺

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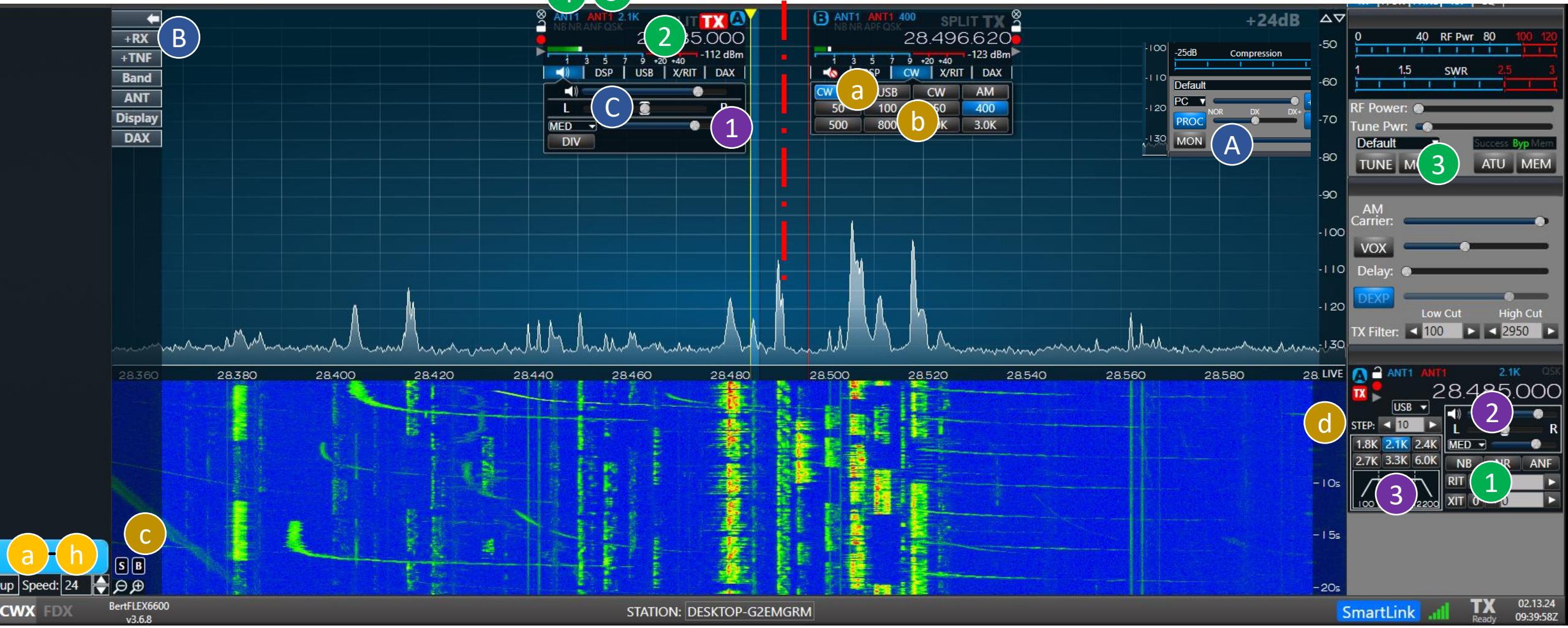
SLICE A | SLICE B



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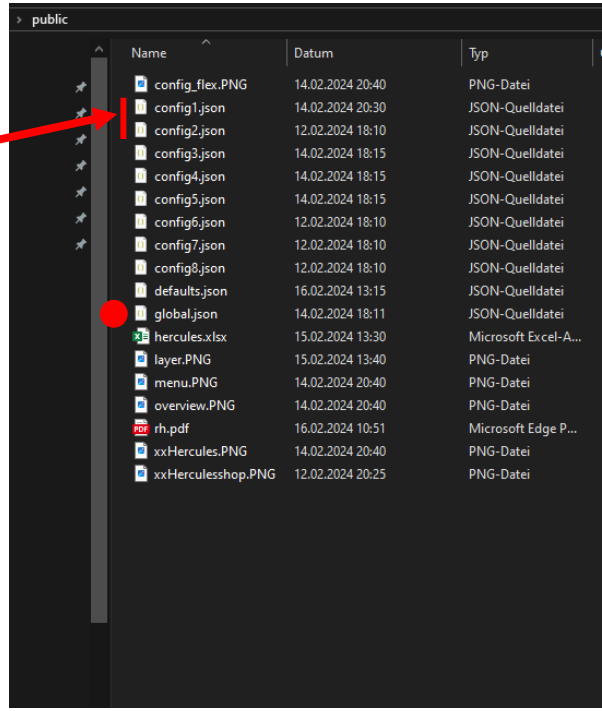
«public/global.json »

```
{
        "configs" : 2,
        "default" : 2
}
```

How many config<nr> you want to use.
2 means config1.json+config2.json
3 would be config1, config2 &config3
…
(see config<nr>.json slide)

Which of the config<nr>.json should be set as **default** when starting the software.

In our example:
- config1.json & config2.json are configured.
- config2.json will be default



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«public/config<nr>.json »

```
{
    "FlexIP" : "192.168.0.110",
    "FlexPort" : 4992,
    "JogCoolDown" : 100,
    "MidimapFile" : "hercules.xlsx",
    "WindowsMidiName" : "DJControl Starlight"
}
```

This is the (local) IP to your Flex you want to control. More Flex => u need more configs activated and edited! (*)

FlexPort for Kommunikation, default

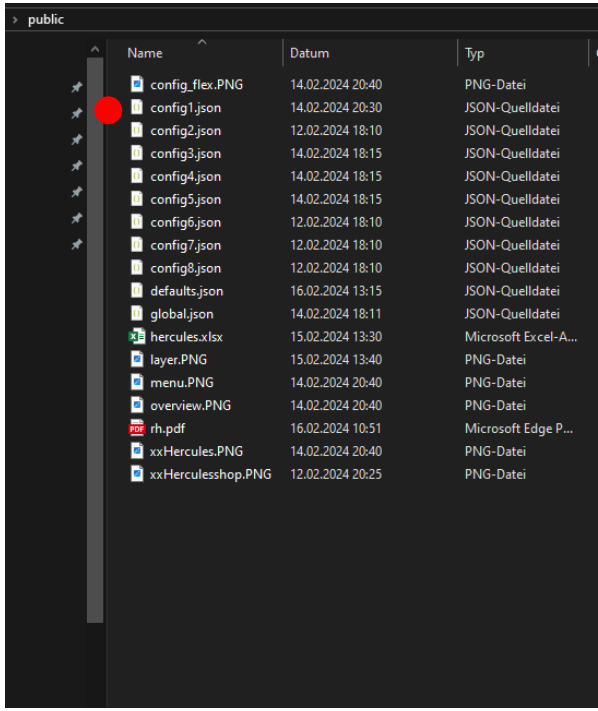
JogCoolDown = Testvalue JogWheel

Name of the Mapping-Excel u want tu use

Midi-DriverName in your Windows, default

(*) ONLY VALUE YOU MUST CHANGE
Normally nothing to change in other properties

Example:
config1.json => 1st Flex with 192.168.0.110
config2.json => 2nd Flex with 192.168.0.111
….



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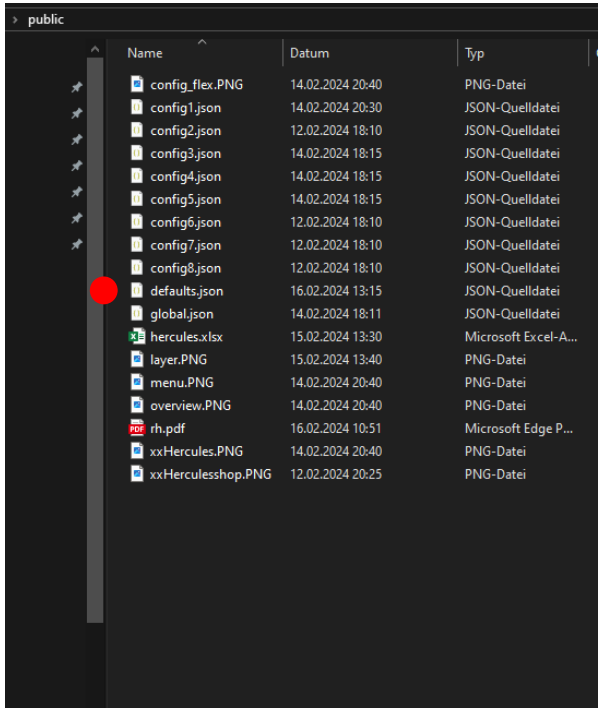
«public/defaults.json »

```
{
  ❶ "StationName" : "",
  ❷ "CWMakro" : [ "DM5XX", "DM1XX", "DM2XX", "DM3XX", "ur 5nn", "tu"],
  ❸ "NotValidModes" : ["AM", "SAM", "FM", "NFM", "DFM"],
  ❹ "NotValidSteps" : [ 1,1000, 2000,3000],
  ❺ "CWFilter" : [50,100,250,400,500,800,1000,3000],
  ❻ "Filter" : [1200,1800,2100,2400,2700,2900,3300,4000,6000],
  ❼ "PanBW" : [0.005, 0.010, 0.050, 0.100, 0.250]
}
```

❶ needs to be added , if its NOT your default computer name

❷ up to 8 CW-Msg (mapped to Loop a,b,c,d + e,f,g,h) (*) **CHANGE THEM**
❸ not valid modes for CUE-a
❹ not valid step size for CUE-d
❺ valid CW-Filter BW for CUE-b
❻ valid Filter BW for CUE-b
❼ valid Pan BW for CUE-c
(*) comma separated "DM5XX " – up to 8 strings.



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«public/hercules.xlsx »

❶ mapped function ❷ mode ❸ grp-#

	B	C	D	E	F	G	H	I	J	K	L
1	Tempo	Poti	cc						rit	0	0
2	Jog	Jog	cc						vfo	0	0
3	Jog	Jog	cc						vfo	0	0
4	JogBtn	Btn	noteon							0	0
5	Sync	Btn	noteon	1	5	127	0	1|5	xmit	3	1
6	Cue	Btn	noteon	1	6	127	0	1|6	toggleRXANT	2	1
7	Play	Btn	noteon	1	7	127	0	1|7	toggleTXANT	2	1
8	Headphone	Btn	noteon	1	12	127	0	1|12	monitor	1	0
9	Shift	Btn	noteon	0	3	127	0	0|3	setdefault	2	0
10	HotCue	Btn	noteon	1	15	127	0	1|15		0	0
11	Loop	Btn	noteon	1	16	127	0	1|16		0	0
12	CBtn1	Btn	noteon	6	0	127	0	6|0	modes	2	0
13	CBtn2	Btn	noteon	6	1	127	0	6|1	filters	2	0
14	CBtn3	Btn	noteon	6	2	127	0	6|2	panBW	1	0
15	CBtn4	Btn	noteon	6	3	127	0	6|3	steps	2	0
16	LBtn1	Btn	noteon	6	16	127	0	6|16	cwxLoopBtnL	2	2
17	LBtn2	Btn	noteon	6	17	127	0	6|17	cwxLoopBtnL	2	2
18	LBtn3	Btn	noteon	6	18	127	0	6|18	cwxLoopBtnL	2	2
19	LBtn4	Btn	noteon	6	19	127	0	6|19	cwxLoopBtnL	2	2
20	Master	Poti	cc	0	3	127	0	0|3	agc	0	0
21	Volume	Poti	cc	1	0	127	0	1|0	volume	0	0
22	Bass/Fil	Poti	cc	1	1	127	0	1|1	freeFilter	0	0
23	Tempo	Poti	cc	2	8	127	0	2|8	rit	0	0
24	Jog	Jog	cc	2	9	1	127	2|9	vfo	0	0

Controller Midi-Definition

ID

midimap | midimap2 | functions | Legegend

❺

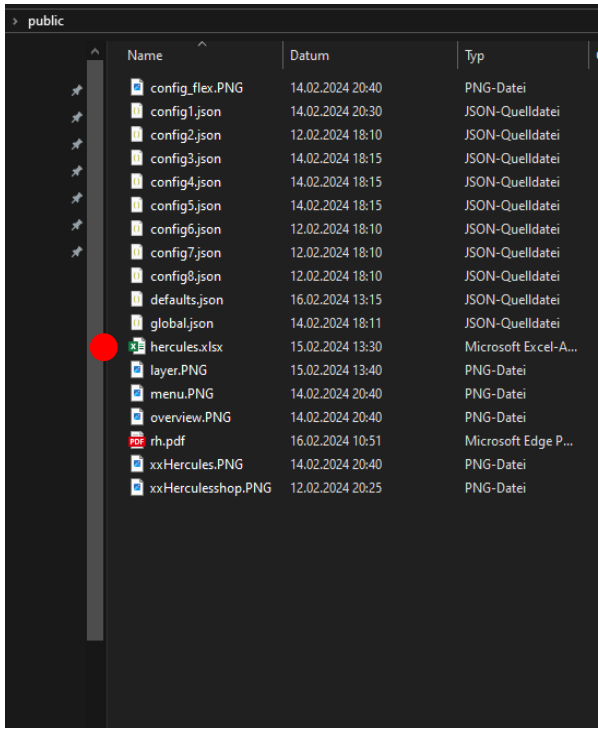
Layer 1 - Layer 2

❹

❶ mapped function for this actor

❷ Led-BTN-mode:
- 0 = no btn/not set
- 1 = Led normal on/off
- 2 = Led stays on f. 0.5s, than off
- 3 = Led stays on as long as pressed

❸ Grouped actors
- 0 = no group
- 1,2,3… = same group
- Group: Only 1 can be „on“.

❹ Config-Sheet for each Layer:
- midimap = Layer 1
- midimap2 = Layer 2

❺ Valid functions to map, more info