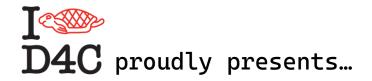


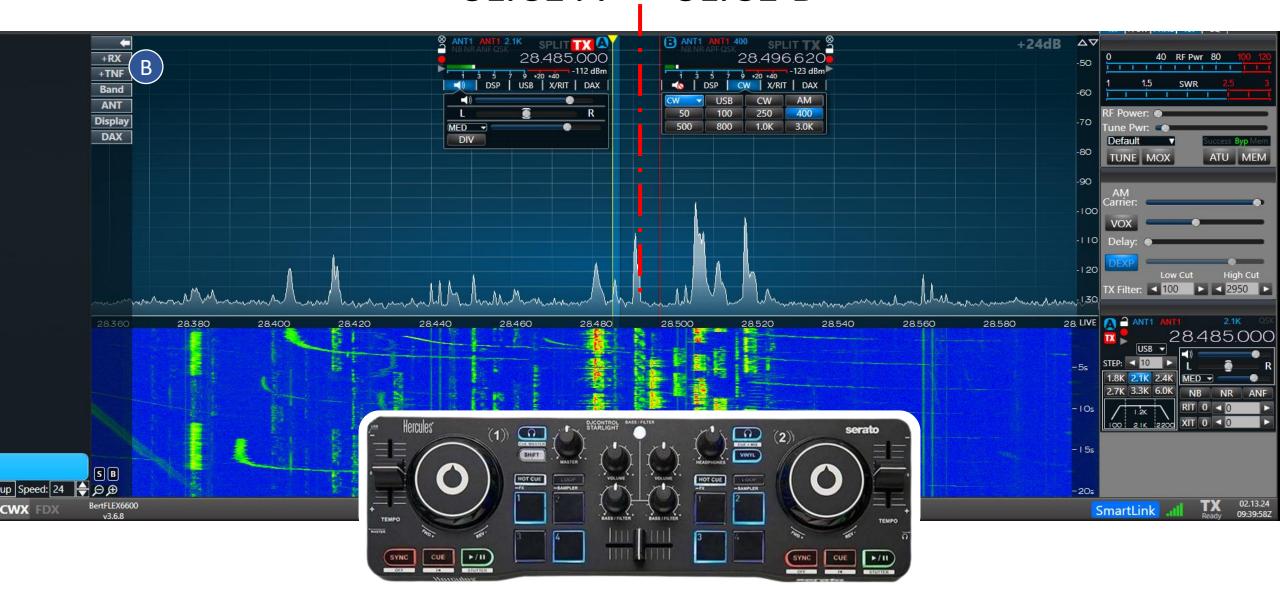
Hercules

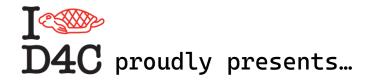


for controlling SSDR FlexRadio by a *«Hercules DJControl Starlight»* console for Windows



SLICE A SLICE B





SLICE A

SLICE B



Installation: https://github.com/dm5xx/xxFlexController/blob/master/README.md





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 SI.A

- a) CWMakro1
- b) CWMakro2
- c) CWMakro3
- d) CWMakro

- SI.B
- e) CWMakro5
- f) CWMakro6
- g) CWMakro
- h) CWMakro8

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

Global:

- -A- MON
- -B- Swap Slice A | B<->B | A
- -C- Pan L/R SI.A/B

«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>



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. 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 ©

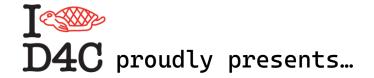
Up to 8 differerent radios!

config<nr>.json for each flex => <nr> starting at 1

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

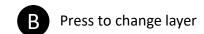
After entering configuration mode (base led = PURPLE) and selecting your config, controller is trying to connect to the radio. If there is an error, base led will turn RED.

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



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

Select Layer off/Layer 1 & blue/Layer 2





You want more! More! More?

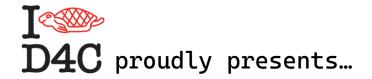
- Maybe you want to have more functions mapped
- Maybe you want to have on mapping for contest, one mapping for dx
- Maybe you enjoy screwing up everything,hi

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

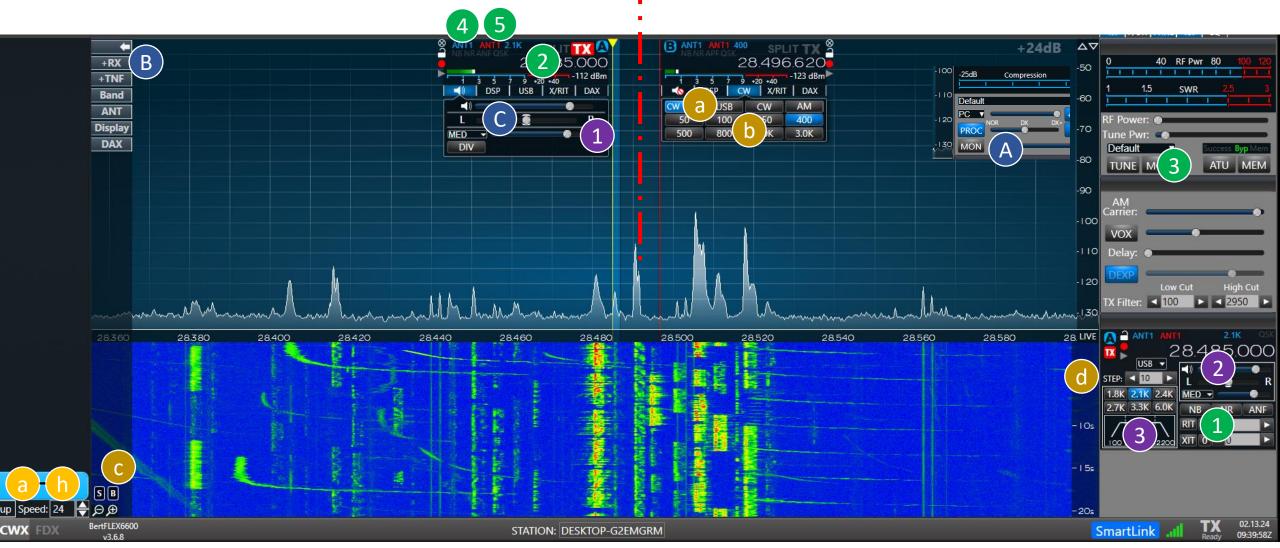
Layer 2 will use the mapping in sheet "midimap2" of public/hercules.xlsx (default: same as in Layer 1)

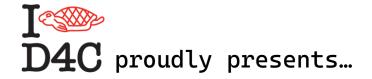
WARNING

- 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 ©



SLICE A | SLICE B





«Functions to map: OVERVIEW»

Function	
agc	Modify the AGC slider-Value. Does not change the "Slow/Med/Fast" setting
center	Center the panaroma window to the Frequency of Slice A or Slice B
configMode	Enable/Disable config mode to select up to 8 different config <nr>-jsons using Hot CUE/Loop and Btns1-4</nr>
cwxLoopBtnL	Fire CW msgs while Left Loop-Btn is selected using Btns1-4
cwxLoopBtnR	Fire CW msgs while Right Loop-Btn is selected using Btns1-4
fadePan	Use the crossfade to move Slice 1 Audio to the left or Slice 2 Audio to the right. Other audio Slice-Pan-Setting will be untouched
fadeSO2R	Fader complete Left=R1 Both ears. Fader complete Right=R2 Both ears. Fader in between: R1=Left, R2=Right
fadeSO2RMix	Like fadeSO2R, but in between fadePan behavoir
filters	Jump through the different predefined Fiters. Btn press= next filter
freeFilter	Modify the Filter Bandwith with a poti
modes	Jump through the different predefined Modes. Btn press= next filter
monitor	Switch on/of MON
panBW	Jump through the predefined Panoarama-Fall BW
rit	Change the RIT of Slice 0 or 1 with left or right Tempo Fader
setdefault	Remove both Slices and create new (buggy)
steps	Jump through the different predefined step width to make the frequency change
toggleLayer	Toggle the controllers actor settings between layer 1 and layer 2
toggleRXANT	Toggle between RX_A and TX-Ant of Slice A or Toggle between RX_B and TX-Ant of Slice B
toggleTXANT	Toggle between TX-Ant1/2 of Slice A or between Ant2/1 of Slice B
toggleSlices	Toggle order of the two slices
vfo	Change VFO of Slice A / B
volume	Change Audio Volume aof Slice A / B
xmit	Set TX to Slice A and MOX or Set TX to Slice B and MOX

General Information:

- See hercules.xlsx -> function (sheet) for the newest function
- Only functions mentioned here can be mapped
- Not all functions can be mapped to a different kind of actor (buttons, sliders, crossfader, jogwheel...)
- Keep in mind, that you can also change the behaviour of a button (led), but the behaviour might be in the code
- Normally functions do not change their behaviour, new or different functions will be added (except: bug fixing)
- Not all methods work stable (acually "setdefault" behaves strange ans was removed from the mapping fix->tbd.)



«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

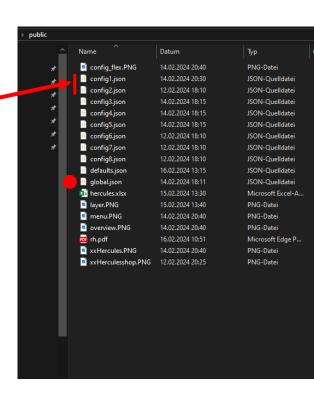
٠.

(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





«public/config<nr>.json »

```
"Debug": false,
"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

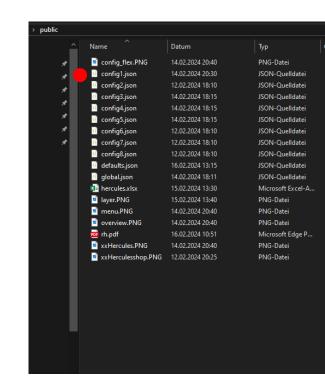
(*) ONLY VALUE YOU MUST CHANGE

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

Debug = true => Enable Debu e.g. MidiMsg-Output





«public/defaults.json » (Part1)

```
1 "StationName": "",
2 "CWMakro": ["DM5XX", "DM1XX", "DM2XX", "DM3XX", "ur 5nn", "tu"],
3 "NotValidModes": ["AM", "SAM", "FM", "NFM", "DFM"],
4 "NotValidSteps": [1,1000, 2000,3000],
5 "CWFilter": [50,100,250,400,500,800,1000,3000],
6 "Filter": [1200,1800,2100,2400,2700,2900,3300,4000,6000],
7 "PanBW": [0.005, 0.010, 0.050, 0.100, 0.250]
```

```
needs to be added, if its NOT your default computers name (*)

up to 8 CW-Msg (mapped to Loop a,b,c,d and e,f,g,h) (**) CHANGE THEM

not valid modes for CUE-a

not valid step size for CUE-b

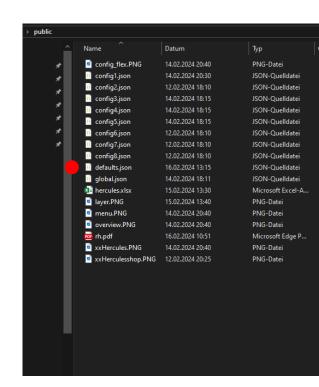
valid CW-Filter BW for CUE-b

valid Filter BW for CUE-c

(*) My Comp.Name = DESKTOP-G2EMGRM = "STATION" => StationName ""

If it changed SmartSDR STATION to "10M RUN" => StationName "10M RUN"

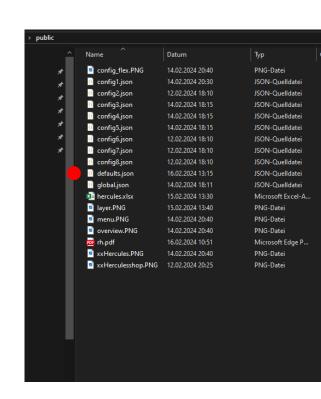
(**) comma separated "DM5XX" — up to 8 strings.
```





«public/defaults.json » (Part 2)

```
"RitFreq": [2500, 250]
+- Freq for Rit 1st: Phone e.g. 2500hz, 2nd: CW e.g. 250hz
99999
```





«public/hercules.xlsx »

