

This tutorial explains how to configure Open Stage Control and VCV Rack to communicate together.

I just put a few lines at the end of the tutorial on the configuration of cvOSCcv, it depends after what you want!

Abbreviations:

- OPSC: Open Stage Control <https://openstagecontrol.ammd.net/>
- OSC: Open Sound Control
- VCV Rack: VCV Rack <https://vcvrack.com/>

Global operation:

1: create a network with all your connected devices.

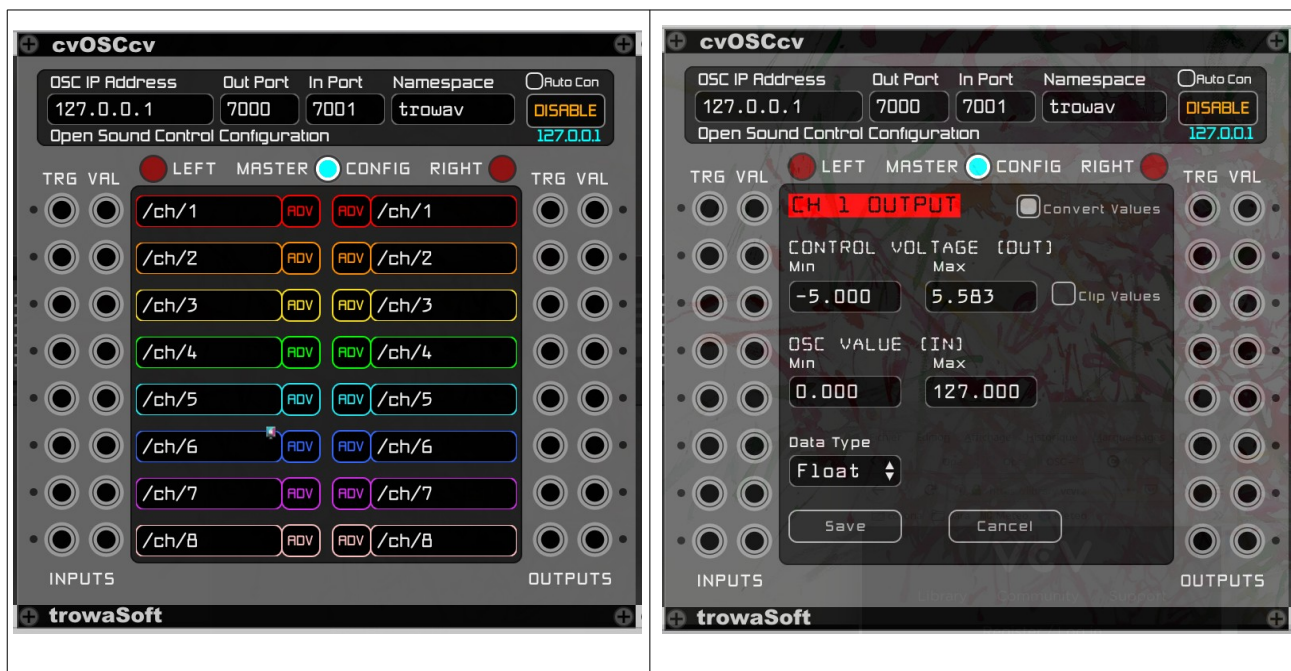
→ For example, launch a wifi connection sharing with a smartphone, and connect on it with a computer and a tablet

2: launch VCV Rack and add the trowasoft cvOSCcv module

→ <https://vcvrack.com/>

→ <https://library.vcvrack.com/?brand=trowaSoft>

3: click on the config button at the top in the middle, then on the connect button at the top right of the module. If all goes well the ip address 127.0.0.1 is displayed in blue.



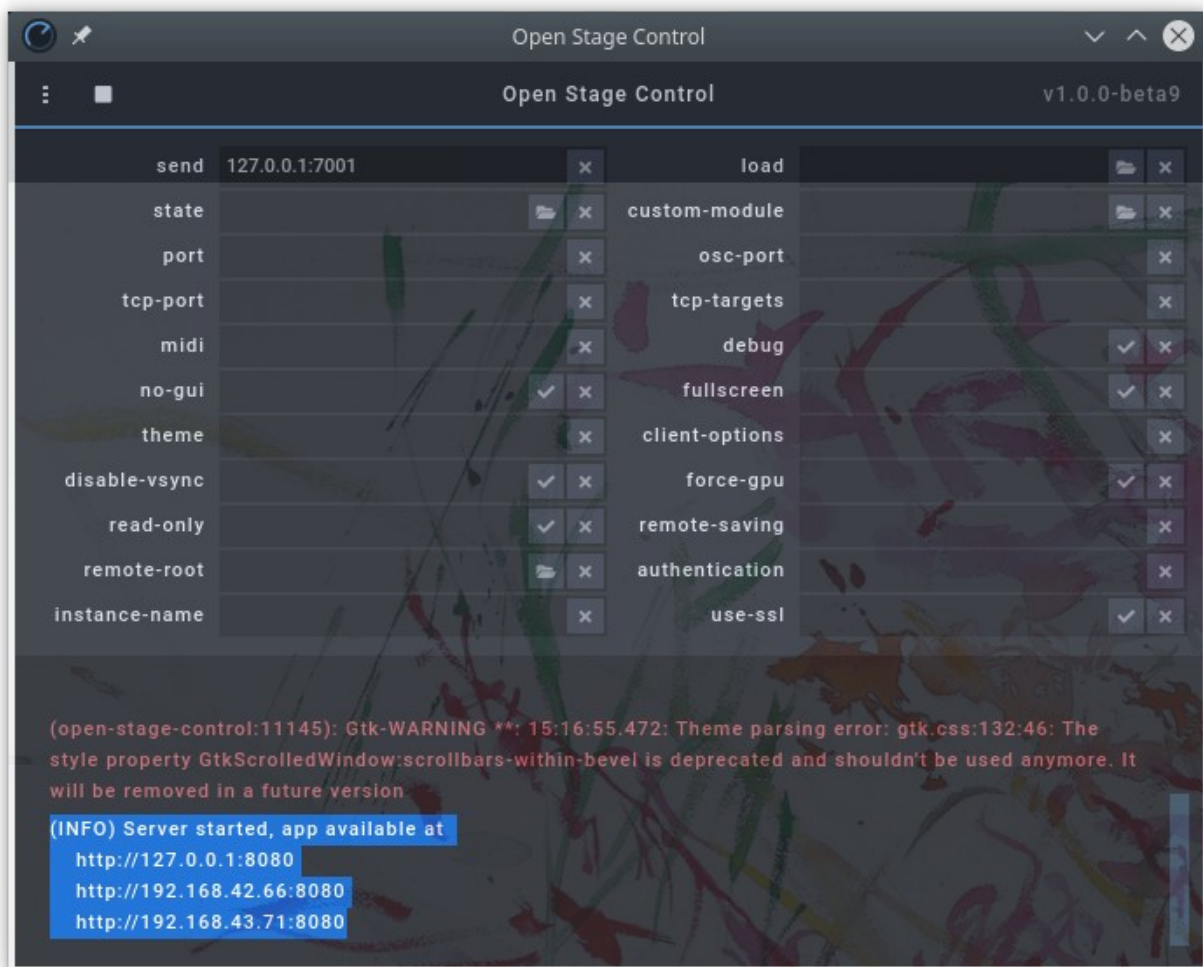
4: VCV Rack and cvOSCcv are configured, we don't touch anything anymore. In fact, there are probably something else to configure, especially the input and output values of each canal, but I talk about it at the end of this tutorial.

5: launch open-stage-control

6: in the 'send' field, enter 127.0.0.1:7001 Which corresponds to the OSC server created by cvOSCCv, its address being 127.0.0.1 (OSC Ip address) and its port to enter 7001 (In port)



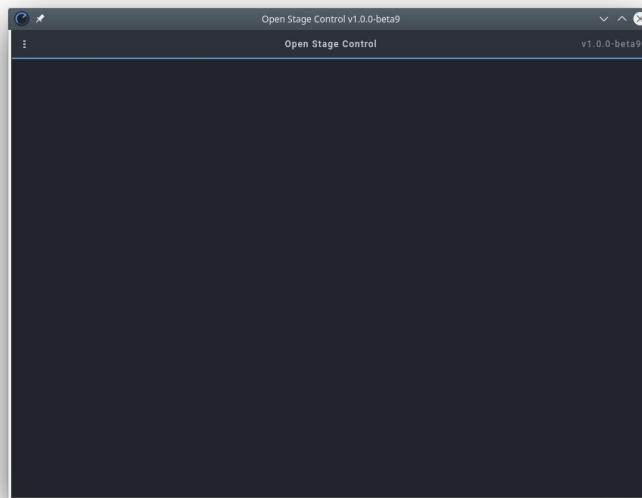
7: launch the OPSC server by clicking on the play arrow at the top left of the window



8: the addresses to connect to the OPSC server are displayed in the console at the bottom of the window

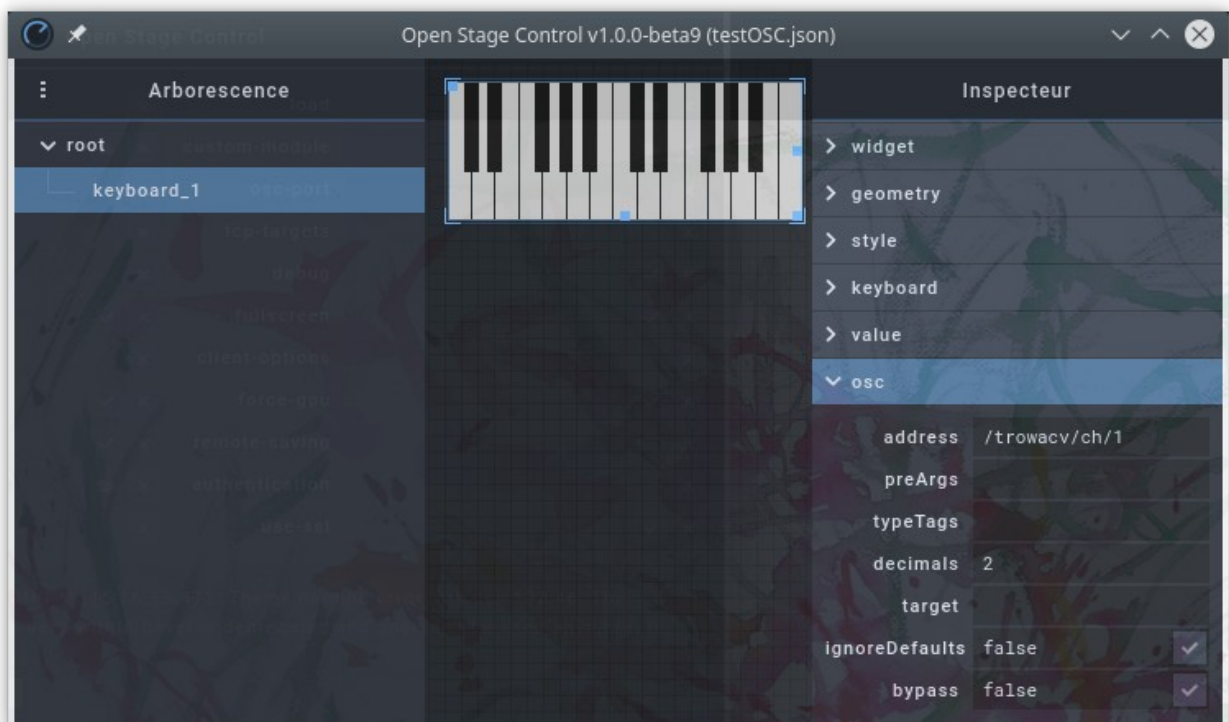
(for example (INFO) Server started, app available at <http://127.0.0.1:8080>
<http://192.168.42.66:8080> <http://192.168.43.71:8080>)

9: a window launches (or otherwise click on the 3 points at the top left and select New Window)



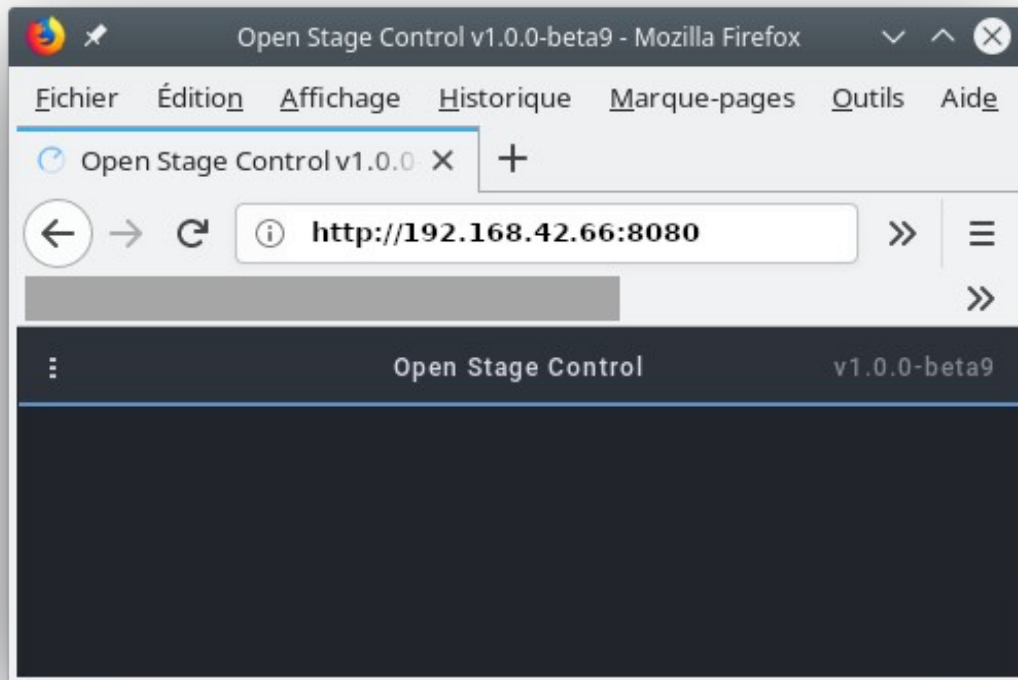
10: click on the 3 dots at the top left and select New Session. You arrive in the OPSC editor. Add a keyboard by making a right click in the center then addWidget → AddContainers → Keyboard

11: A keyboard appears. Left click on it to select it, then right in the OSC tab enter /trowacv/ch/1 in the 'address' field

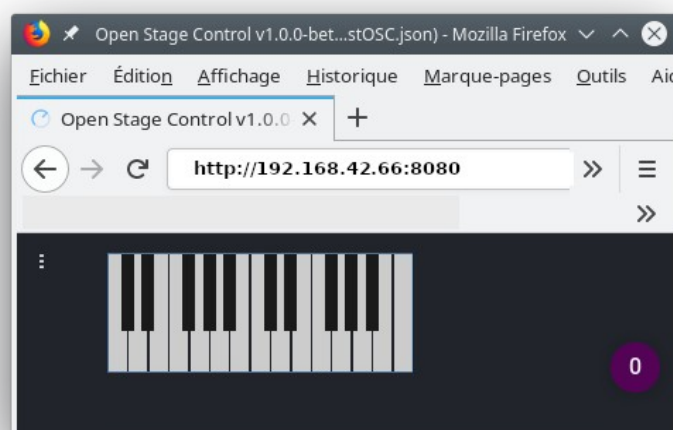


12: the controller is configured !! Save with the 3 small dots at the top left then Session-> Save.

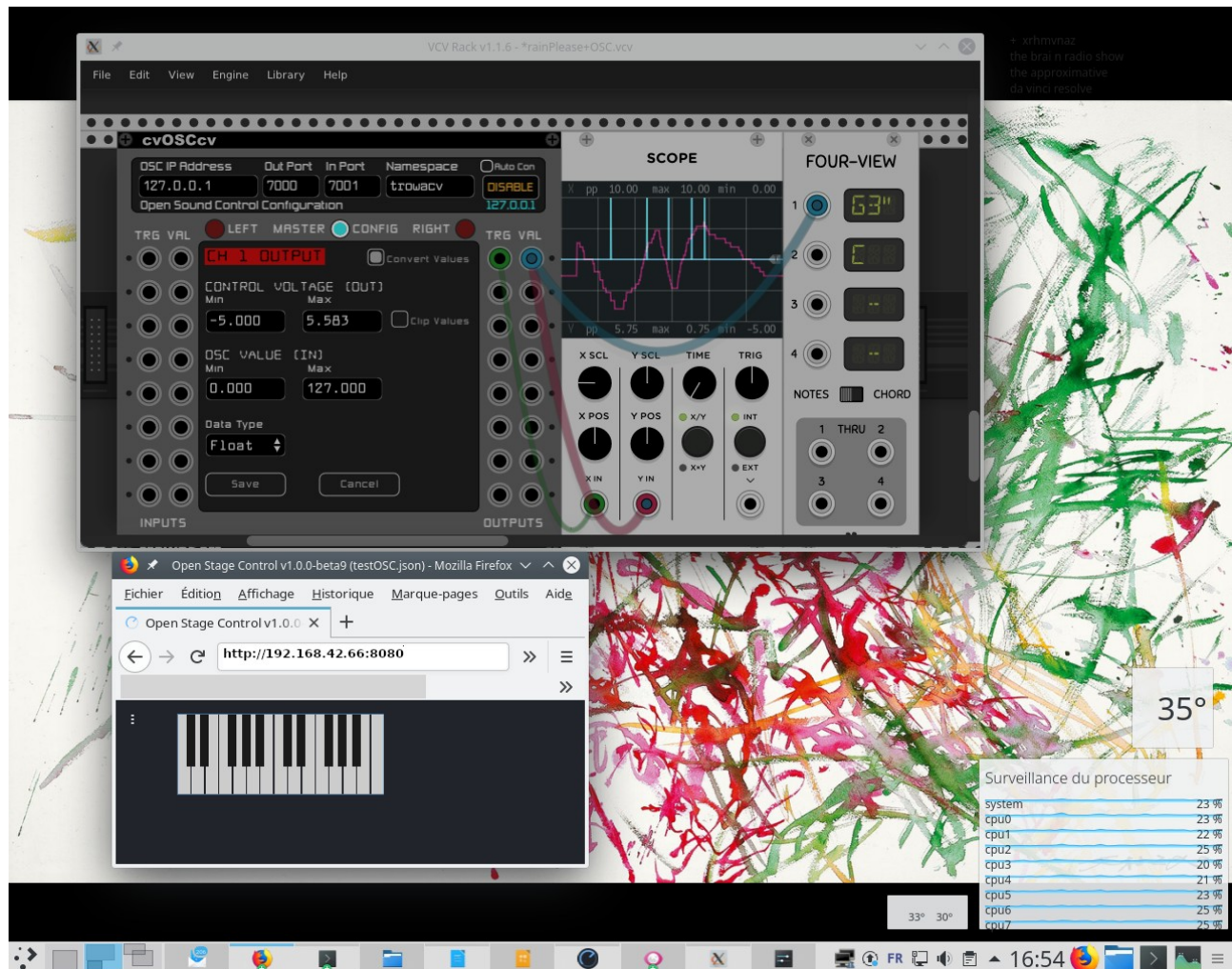
13 : launch your web browser (pay attention to the version etc ...) and enter the address bar a addresses to connect to OPSC servers. In our example, we can use `http://127.0.0.1:8080` on his local computer, and otherwise `http://192.168.42.66:8080` or `http://192.168.43.71:8080` for a computer or a tablet or a remote phone



14: click on the 3 dots at the top left and load the session where you created keyboard.



15: It should work now, you should be able to recover the notes and the trig sent by the keyboard.



16: By connecting a tablet to the same wifi network (see start of document), and entering the same address in my browser, I get the same results !!

17: To add an another channel, configure OPSC and cvOSCcv, then stop and restart cvOSCcv (in clicking on disable/enable at the top right)

18: I refer you to the OPSC documentation (<https://openstagecontrol.ammd.net/>) for good understand how it works and make your own controller. Just know that the editor is in real time, so it's very usefull to quickly create a controller.

Configuration of TrowSoft - cvOSCcv:

in cvOSCcv, in the configuration tab of each channel, you must pay attention to the value enter and exit value.

For example, for a knob in OPSC, in the Knob tab on the right, field "range", we see that the value goes from 0 to 1. We must therefore put these 2 values in the OSC Value In field in the configuration of the associated channel, and click on Convert Value.

And similarly, pay attention to the Control Voltage Out field, -5 / + 5 is generally good for a keyboard, but for a knob, it will rather be 0 / + 10 ... you see.

Little tip: cvOSCcv is a little finicky to save the configuration, I noticed that it works when I enter values without commas.

Little tip 2: OPSC seems to send notes from 0 to 120. When I enter these values in OSC Value In, my C4 matches.