

MIDI Control DS

SETUP

First of all, download the DSMIDIWiFi server for your system here :

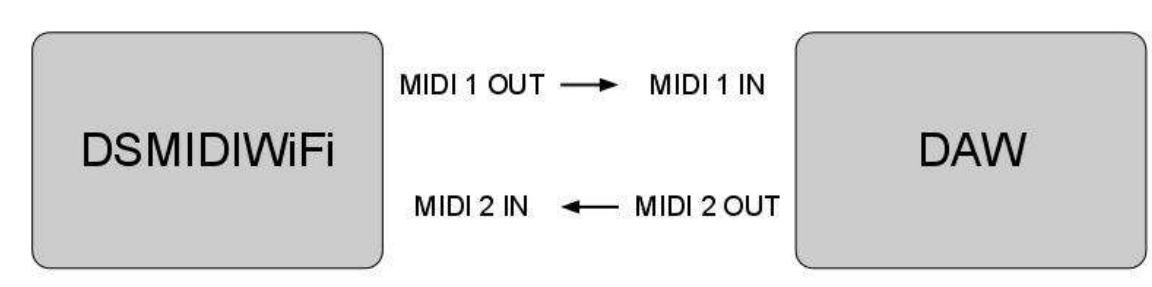
<http://code.google.com/p/dsmi/downloads/list?q=dsmidiwifi>

WINDOWS :

In order to use MIDI Control DS, you will need at least one virtual midi cable. [LoopBe1](#) is a free virtual midi interface providing one midi in and one midi out. However, to fully experience MIDI Control DS you should use **two midi in** and **two midi out**. You can for example, use LoopBe1, and a hardware midi interface, with one of its midi out going to one of its midi in, or you can buy [LoopBe30](#) which can provide up to 30 Midi in and out.

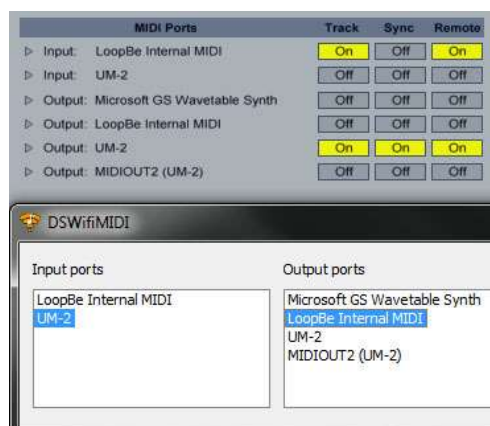
If you use only one midi in and one midi out, in order to avoid midi shortcuts, you should disable the midi in messages on MIDI Control DS. You can do that by setting "*message = 0*" in the **[midiin]** section of the configuration file (see the configuration file section below for more information).

CONFIGURATION WITH 2 MIDI IN AND OUT

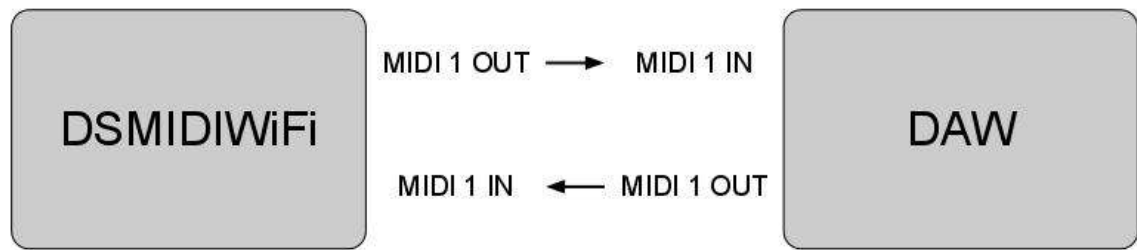


- In DSMidiWifi server, set the midi out to **MIDI 1 OUT** and midi in to **MIDI 2 IN**
- In the DAW, enable the clock sync and midi message send on **MIDI 2 OUT**, and enable the midi message receiving on **MIDI 1 IN**

This is what it would look like with Ableton Live

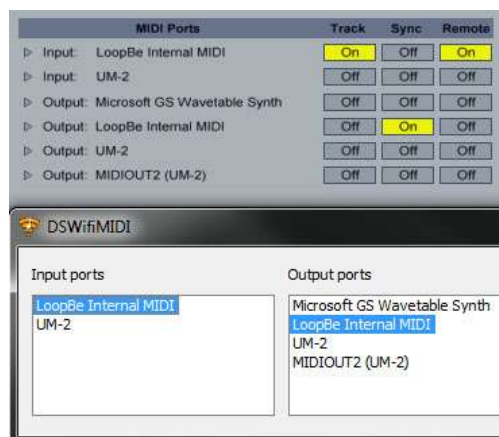


CONFIGURATION WITH 1 MIDI IN AND OUT



- In DSMidiWiFi server, set the midi out to **MIDI 1 OUT** and midi in to **MIDI 1 IN**
- In the DAW, enable the clock sync on **MIDI 1 OUT**, and enable the midi message receiving on **MIDI 1 IN**

This is what it would look like with Ableton Live



MAC OS X :

The DSMidiWifi server for Mac OSX provides its own MIDI input and output. Simply launch the server, then in your DAW enable clock sync and midi message send on DSMidiWifi IN, and MIDI message receiving on DSMidiWifi OUT.

Be careful ! DSMidiWifi IN is an output, and DSMidiWifi OUT is an input.

CONFIGURATION FILE

When you will use *MIDI Control DS* for the first time, a file called **midicontrol.cfg** will be created in the same directory as the application. It will save the MIDI parameters you can change in the program, and will also hold a few general parameters that you can change by editing the file.

[general]

wifi = 1/0 : enable/disable wifi connection
debug = 1/0 : enable/disable debug messages display
saveccs = 1/0 : save the CC values

[debug]

in = 1/0 : enable/disable incoming midi messages display
out = 1/0 : enable/disable outgoing midi messages display
clock = 1/0 : enable/disable midi sync incoming messages display

[midiin]

message = 1/0 : enable/disable incoming midi messages
clock = 1/0 : enable/disable midi sync with the midi input

[kaoss]

bank:parameter:ch/cc = value
bank = 1 - 4
parameter = x/y/z
value = 1 - 16 (channel), 0 - 127 (cc)

[sliders]

bank:slider:ch/cc/co = value
bank = 1 - 3
slider = 1 - 16
value = 1 - 16 (channel), 0 - 127 (cc), 1 - 6 (color)

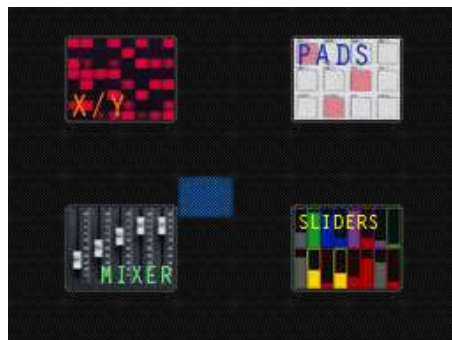
[mixer]

mi/mu:number:ch/cc = value
mixer/mute
number = 1 - 8
value = 1 - 16 (channel), 0 - 127 (cc)

CONTROLS

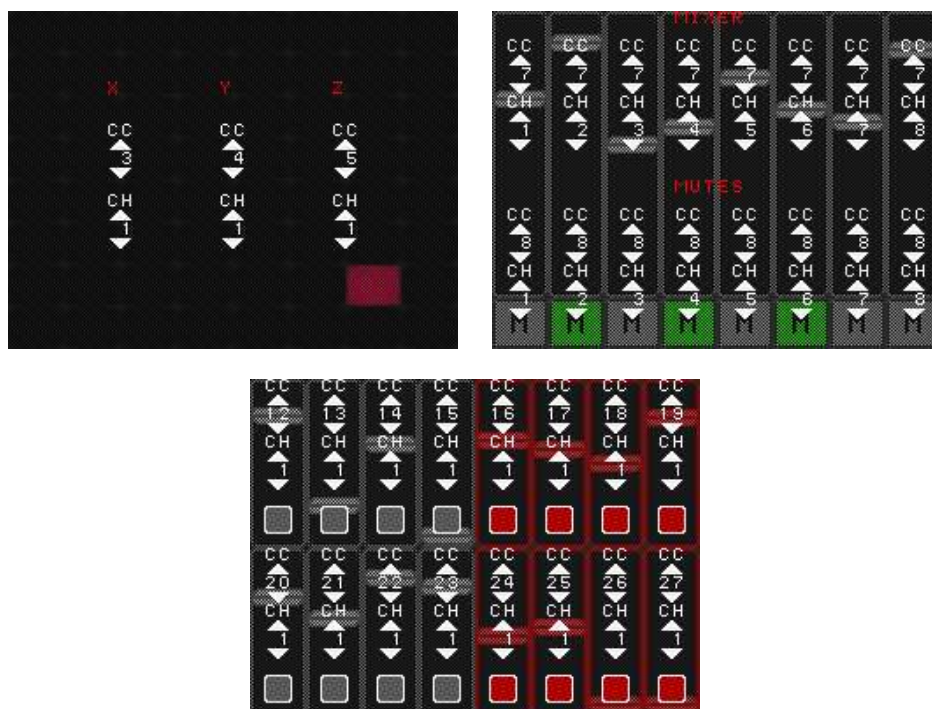
GENERAL

To select a mode, press the **SELECT** button, and this menu will appear :



Touch one of the four icons to select one of the four modes : X/Y, Pads, Mixer or Sliders

In X/Y, Mixer and Sliders mode, you can configure the MIDI parameters by pressing the **START** button :



These parameters will be automatically saved to the configuration file.

X/Y MODE

L and R buttons :

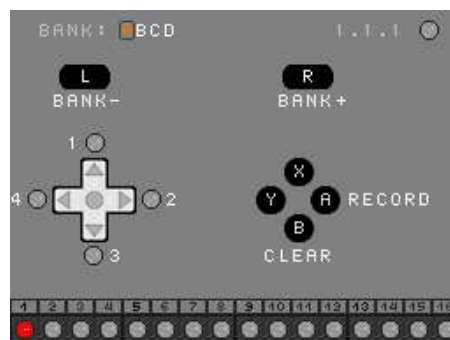
Switch bank

Touchscreen :

When you touch the screen, 3 MIDI CC parameters will be sent : X and Y positions, and Z : 127 if the touchscreen is pressed, 0 if the touchscreen is released

LOOP RECORDING

In X/Y mode, you can record 1 bar loops and recall them at any moment. You can store 4 loops by bank.



To record a loop, hold **A** and press one of the four **D-Pad** directions.

- The corresponding icon on the D-Pad will then turn orange, until the beginning of the next bar.
- It will then turn red, and the recording will start : do the sequence you want to record on the touchscreen.
- The icon will then turn green and your recorded sequence will be playing.
- To stop the loop, press the corresponding D-Pad direction
- To play it again, press the corresponding D-Pad direction
- To clear a loop, hold the **B** button while pressing the corresponding D-Pad direction

Loop recording will only work if you have enabled MIDI Clock sync !

PADS MODE

Touchscreen :

Hit a pad to send a note. Hit the pad on the middle to send a greater velocity. Hit on the side and the velocity will be lower

L and R buttons :

Switch channel

UP and DOWN buttons :

Go 4 notes up/down

UP and DOWN buttons + Y button :

Go 1 octave up/down

LEFT and RIGHT buttons :

Increase/Decrease the Note Repeat rate

X button :

Toggle between *double* and *triple* Note Repeat rates

A button :

Turns *Hold* on. Pads hit when Hold is on will remain on until you hit them again.

A button + Y button :

Turns *Hold* on and keep it on until you press A again.

B button :

Enable/Disable note repeat. If note repeat is enabled, the note will be repeated at the selected rate, in sync with the tempo.

Note Repeat will only work if you have enabled MIDI Clock sync !

MIXER MODE

Touchscreen :

Move the sliders to send a CC, Toggle the Mute buttons to send a CC (0 when you disable the mute, 127 when you enable it)

SLIDERS MODE

L and R buttons :

Switch bank

Touchscreen :

Move the sliders to send a CC

NOTES

MIDI Control DS was programmed by Ben_j.

For all contact and information, go to <http://midicontrols.blogspot.com>

MIDI Control DS was made thanks to these technologies :

devkitPro/libNDS <http://devkitpro.org/>



DSMI <http://dsmi.tobw.net>



Visual Studio 2010 <http://www.microsoft.com/visualstudio/>

