You will need to open the port number on your internet hub & SDRCONDECt

## Windows Server

DS

(VID673)

#### SORplay V

#### Windows server start-up shortcut

view's a simple batch script that you can use to create a anorticul that sell run the server with administrator privileges:

@echo off cd "C:\Program Files\SDRplay\SDRconnect" start .\SDRconnect --server

To create the desirtop shortout, follow these steps:

1. Open Notepail or any text editor.

 Copy and parts the above script into the test ealter.
 Save the Re with a Jair extension, for mampin, StartServerJair, to your desistap or any other conversion formation.

4. Right click on the .bot file and select 'Run as administrator'

- 6. Right-click on the Jost file and select 'Create shortcut'. 6. Right-click on the electrical and select 'Properties'.
- 7 in the Shortcut tab, click on Advanced.
- 8. Check the bis 'Run as administrator'.
- 9. Click 'OK' and then 'Apply' in the Properties window
- 10. Copy and pasts to the desistop.

Now, when you double-click the shortout, it will prompt for administrator privileges and then run the server as specified.

Remember you will need to confirm the action in the popup that appears when running the shortcut.



# Server Settings

Usage: SDRconnect --server [--help] [--version] [--listdevices] [--hwser=<serialNumber>] [--port=<portNumber>] [--ip=<ipAddress>] [--samplerate=<sampleRate>] [--centerfrequency=<centerFrequency>] [--biast=<biasTenable>] [--antenna=<antennaNumber>] [--rfnotch=<rfNotchEnable>] [--dabnotch=<dabNotchEnable>] [--Inastate=<lnaState>] [--ifgr=<ifGr>] [--ifagc=<ifagcEnable>] [--setpoint=<setPoint>] [--agc-attack=<agcAttack>] [--agc-decay=<agcDecayThreshold>] [--exclusive] [--max-clients=<maxClients>]

 --server
 (Required) Starts the server engine

 --help
 Print this help information

 --version
 Print the application version number

 --listdevices
 Print a list of connected devices

 --exclusive
 Prevent ANY client from accessing the hardware controls

<serialnumber></serialnumber>	RSP serial number
<portnumber></portnumber>	Listen on TCP port number (default is 50000)
<ipaddress></ipaddress>	Listen on TCP IP Address (default is 0.0.0.0 which is any)
<maxclients></maxclients>	maximum number of allowed clients (default = 8)

Hardware sample rate in Hz (default is 2000000) <sampleRate> <centerFrequency> Hardware center frequency in Hz (default is 10000000) <biasTenable> disable = 0, enable = 1 (default is 0) <antennaNumber> Ant A/Tuner 1 50ohm = 0. Ant B/Tuner 2 = 1. Ant C/HiZ = 2 <rfNotchEnable> disable = 0, enable = 1 (default is 0) <dabNotchEnable> disable = 0, enable = 1 (default is 0) <InaState> Range is dependent on RSP and center frequency 0=max gain <ifGr> Range is 20 to 59 (default is 40) disable = 0, enable = 1 (default is 1) <ifagcEnable> default = -30 dbFS, range is normally -20 to -72 <setPoint> <agcAttack> default = 500 ms, range is 0 to 1000 <agcDecay> default = 500 ms, range is 0 to 1000 <agcDecayDelay> default = 200 ms, range is 0 to 1000 <DecayThreshold> default = 5 dB. range is 0 to 20

To list the options: SDRconnect --server --help

Server Tools

Server Setup

#### **Device Settings**

- Can be overridden by first Client,
- Unless --exclusive option is specified



### Windows server start-up shortcut

Here's a simple batch script that you can use to create a shortcut that will run the server:

@echo off
cd "C:\Program Files\SDRplay\SDRconnect"
start .\SDRconnect --server

To create the desktop shortcut, follow these steps:

1. Open Notepad or any text editor.

2. Copy and paste the above script into the text editor.

3. Save the file with a .bat extension, for example, StartServer.bat, to your desktop or any other convenient location.

4. Double click the icon or file name to start the server.

5. To customise the icon, right click the icon or filename, and "create shortcut"

6. This creates a "shortcut" version of the icon/filename. Right click on this

7. Select "properties" and under the "shortcut" tab, select "change icon" where you will get to choose from pre-designed icon pictures or choose your own

Note: you may need to "run as administrator" for some of the actions above



## Windows server start-up shortcut with a specified port (not default 50000)

@echo off
cd "C:\Program Files\SDRplay\SDRconnect"
start .\SDRconnect --server --port=50005

To create the desktop shortcut, follow these steps:

- 1. Open Notepad or any text editor.
- 2. Copy and paste the above script into the text editor.
- 3. Save the file with a .bat extension, for example, StartServer.bat, to your desktop or any other convenient location.
- 4. Double click the icon or file name to start the server.
- 5. To customise the icon, right click the icon or filename, and "create shortcut"
- 6. This creates a "shortcut" version of the icon/filename. Right click on this
- 7. Select "properties" and under the "shortcut" tab, select "change icon" where you will get to choose from pre-designed icon pictures or choose your own

Note: you may need to "run as administrator" for some of the actions above

Note: you may need to "run as administrator" for some of the actions above



### Windows server start-up shortcut with exclusive mode set (limits other user's control)

@echo off
cd "C:\Program Files\SDRplay\SDRconnect"
start .\SDRconnect --server --exclusive

To create the desktop shortcut, follow these steps:

- 1. Open Notepad or any text editor.
- 2. Copy and paste the above script into the text editor.
- 3. Save the file with a .bat extension, for example, StartServer.bat, to your desktop or any other convenient location.
- 4. Double click the icon or file name to start the server.
- 5. To customise the icon, right click the icon or filename, and "create shortcut"
- 6. This creates a "shortcut" version of the icon/filename. Right click on this
- 7. Select "properties" and under the "shortcut" tab, select "change icon" where you will get to choose from predesigned icon pictures or choose your own

Note: you may need to "run as administrator" for some of the actions above

### Additional notes and links:

When connecting to a server over a LAN there is no need for port forwarding since you are within your own network

"Exclusive" mode stops all users from changing the settings altogether. The owner can ensure he/she has overall remote choice by ensuring they are the initial connection. (The owner can have this first client running either on the server hardware, or any other computer)

"IQ" mode sends the full IQ data stream and only works over high speed LAN (or in a limited way on a super-fast end to end internet connection). "Audio" mode is recommended for WAN (internet) use – this send the audio and the visual spectrum display information

There's more information in the Raspberry Pi Tips and Tricks video (VID668) which covers how to use SSH to remotely control the server. This video can be found here:https://youtu.be/B\_zNXtyAwa0 with documentation here: <a href="https://www.sdrplay.com/docs/RemotePiServerFinal.pdf">https://www.sdrplay.com/docs/RemotePiServerFinal.pdf</a>

Basic instructions on how to set up and use the networking features in SDRconnect are covered here: <u>https://youtu.be/I5r4V\_oRhFs</u> with the documentation here: <u>https://www.sdrplay.com/docs/ConnectNetwork.pdf</u>

Other videos relating to SDRconnect can be found here: https://www.sdrplay.com/sdrconnectvideoguides/

