Guide to selecting USB Profiles on the Extreme Music Server

There are 5 steps in this process:

1. Look up your DAC in the DAC list to find the ideal USB profile.
2. Make a VNC remote desktop connection to your Music Server.
3. Execute the selected profile by right-clicking it and selecting "Run with Powershell".
4. Select the appropriate output bit rate in Roon.
5. Setting TAS Buffers (only required when you have TAS installed)

Step 1

Look up your DAC in the list below and make a note of the USB profile and the bit-setting

Note

All DACs in black are embedded part of the initially installed version of the Taiko USB Driver. The DACS in blue are later additions and are present only in the versions of the Taiko Driver as installed for the users that requested this. Contact us via support@taikoaudio.com if you have acquired a new DAC that has been added recently or if you have a DAC that is not on this list.

Analog Domain DAC1 - USB2 - Roon 32-bit

Anthem STR - USB3 - Roon 24-bit

APL DSD-MR - USB4 - Roon 32-bit

APL DSD-SR - USB4 - Roon 32-bit

Aries Cerat Helene - USB4 - Roon 32-bit

Aries Cerat Kassandra - USB4 - Roon 32-bit

Aqua Formula (V1.0) - USB3 - Roon 24-bit

Aqua Formula xHD (V2.0) - USB4 - Roon 32-bit

Aqua La Scala - USB3 - Roon 24-bit

Ayre QX-5 with USB2 upgrade - USB4 - Roon 32-bit

Benchmark – USB3 – Roon 24-bit (added 16-08-2022)

B&O Beolab 50 - USB1 or USB3 - Roon 32-bit (added 28-07-2022)

B&O Beolab 90 - USB1 or USB3 - Roon 32-bit (added 07-07-2022)

Boulder 2120

Bricasti MDx - USB4 - Roon 32-bit

Brinkmann Nyquist - USB3 - Roon 24-bit

CH Precision - USB3 - Roon 24-bit

DCS Bartok - USB3 - Roon 24-bit

DCS Rossini - USB3 - Roon 24-bit

DCS Rossini Player - USB3 - Roon 24-bit

DCS Vivaldi - USB3 - Roon 24-bit

DCS Vivaldi Up-sampler - USB3 - Roon 24-bit

DCS Vivaldi One - USB3 - Roon 24-bit

Denafrips Gaia

Denafrips Terminator Plus

Devialet Expert Pro

EMM Labs DA2 - USB3 - Roon 24-bit

EMM Labs DAC2V2 - USB3 - Roon 24-bit

EMM Labs DAC2X - USB3 - Roon 24-bit

Esoteric Grandioso D1X (PCM only) - USB4 - Roon 32-bit

Esoteric K-01X (PCM only) - USB4 - Roon 32-bit

Esoteric K-01XD (PCM only) - USB4 - Roon 32-bit

Esoteric K-03 (PCM only) - USB4 - Roon 32-bit

Exogal Comet - USB3 - Roon 24-bit

Goldmund Mimesis 20H Nextgen - USB3 - Roon 24-bit

Gustard X26 Pro - USB4 - Roon 32-bit

Holo Audio May - USBx - Roon 24-bit

Ideon Absolute - USB4 - Roon 32-bit

iFi Pro iDSD

JLsounds I2SoverUSB - USB4 - Roon 32-bit (added 07-2022)

Kii Control Digital Preamp and USB Interface (added 25-11-2022)

Lampizator - USB4 - Roon 32-bit

LH Davinci MKII - USB4 - Roon 32-bit

LH Virtuoso - USB4 - Roon 32-bit

Luxman D10X - USB1 or USB3 - Roon 24-bit

Matrix Audio X-SPDIF 2 - USB1 or USB3 - Roon 24 bit

Meridian Explorer 2 – USB2 – Roon 32-bit (added 07-02-2023)

In this case, it is worth testing the following variants:

USB1 – Roon 32-bit
USB1 – Roon 24-bit
USB3 – Roon 24-bit

Meitner MA-3 - USB3 - Roon 24-bit

Meitner XDS1 V3 - USB3 - Roon 24-bit

Mola Mola Tambaqui – USB2 or USB4 - Roon 32-bit (added 08-2022)

MSB Pro USB - USB3 - Roon 24-bit

MSB V / Quad - USB3 - Roon 24-bit

Mutec MC-3+ - USB3 - Roon 24-bit

Nagra HD-X - USB2 - Roon 32-bit

Nagra Tube Dac - USB2 - Roon 32-bit

Omega Audio Concepts DNA DAC - USB1 - Roon 24-bit

Playback Design MPD-8 [SETTINGS TBC] (added 19-05-2022)

Pilium Elektra - USB3 - Roon 24-bit

Resolution Audio Cantata 3.0

Sennheiser HE-1 - USB2 - Roon 32-bit

Singxer SU-6 - USB3 - Roon 24-bit

SoTM dx-usbHD - USB1 or USB3 - Roon 24-bit

Soulution 330 - USB3 - Roon 24-bit

Soulution 760 - USB3 - Roon 24-bit

SRC-DX - USB4 - Roon 32-bit (added 03-2022)

T+A MP 2500R - USB4 - Roon 32-bit

T+A SD(V)3100 - USB4 - Roon 32-bit

T+A HA 200 - USB4 - Roon 32-bit

Thrax Maximinus - USB4 - Roon 32-bit

Topping NX4DSD - USB4 - Roon 32-bit

Totaldac - USB1 - Roon 24-bit

Trinity 1st gen model - USB1 or USB3 - Roon 24-bit

Trinity Reference

Vinnie Rossi L2 (JL Sounds USB Board) - USB4 - Roon 32-bit

Vitus - USB4 - Roon 32-bit

Wadax Atlantis Reference - USB3 - Roon 24-bit

Wadax Arcadia – USB2 – Roon 32-bit (added 07-02-2023)

In this case, it is worth testing the following variants:

USB1 – Roon 32-bit
USB1 – Roon 24-bit
USB3 – Roon 24-bit

Weiss DAC-501 - USB4 - Roon 32-bit

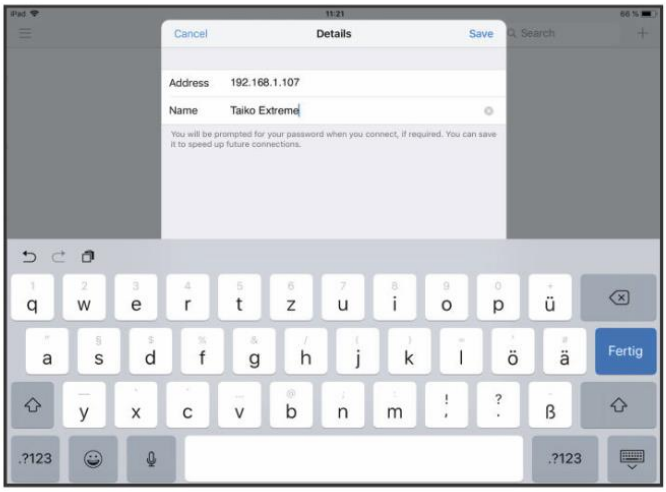
Ypsilon 1000 - USB4 - Roon 32-bit

Step 2

Make a VNC remote desktop connection to your Music Server.

Tip If you have accessed the desktop of the server before, and the IP address of the server has not changed, you can start at step 4.

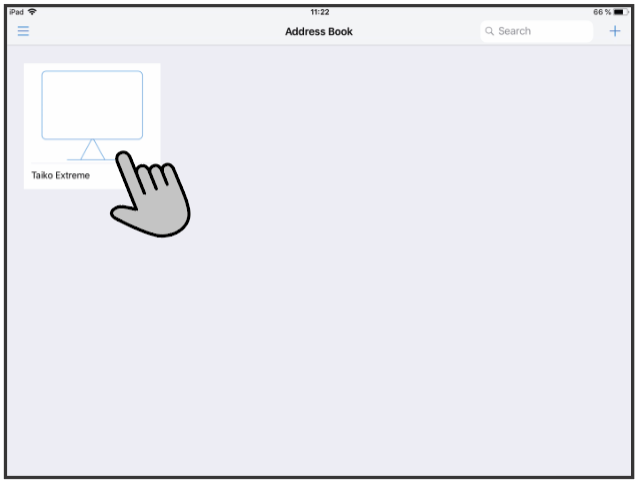
1. Download realVNC on a device connected to the same WiFi network as the server. You can find the app here: https://www.realvnc.com/en/connect/download/viewer/
2. Run the VNC app.
3. Click on the + symbol in the top right corner.



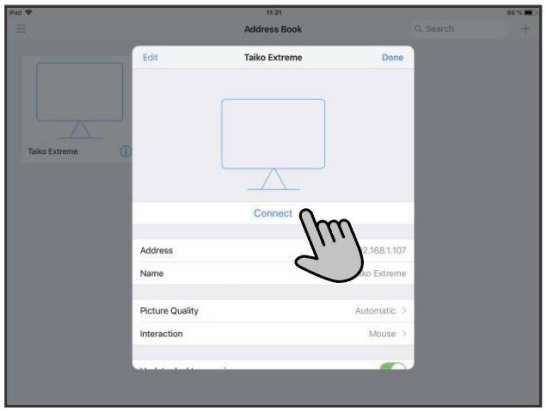
Tip You can find the IP address of the server in the Roon app.

4. Enter the IP address of the server and choose any name.
5. Click *Save*.

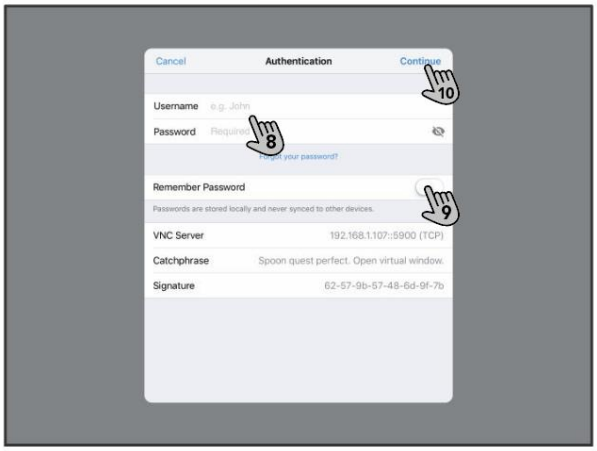
You have now created a connection profile.



6. Click the connection profile with the name you entered in step 3.

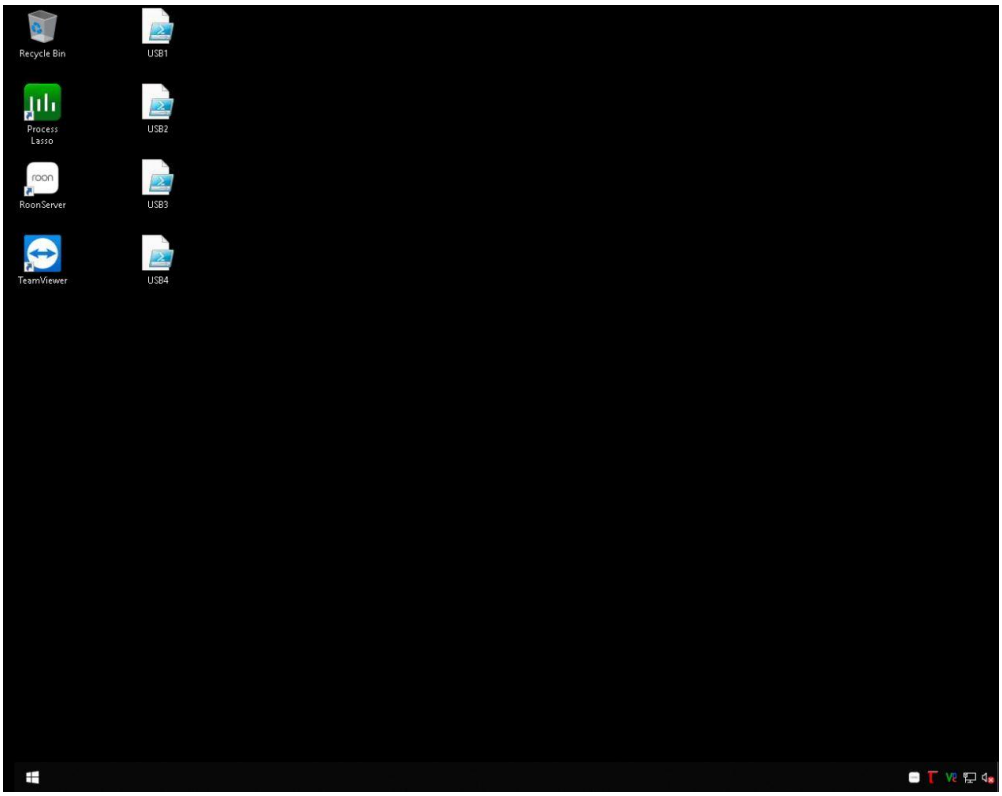


7. Click on *Connect*.



Tip If you don't know the VNC name and password of the server, contact your supplier.

8. Enter the VNC name and password of the server.
9. Select *Remember password*.
10. Click *Continue*



The desktop of the server is shown and can now be controlled.

Tip If you need a keyboard, you can click the keyboard icon in the toolbar at the top of the screen to enable a virtual keyboard.

Alternative method (only MacOS)

When using a MacOS device you can also access the desktop of the server via your browser. Do the following:

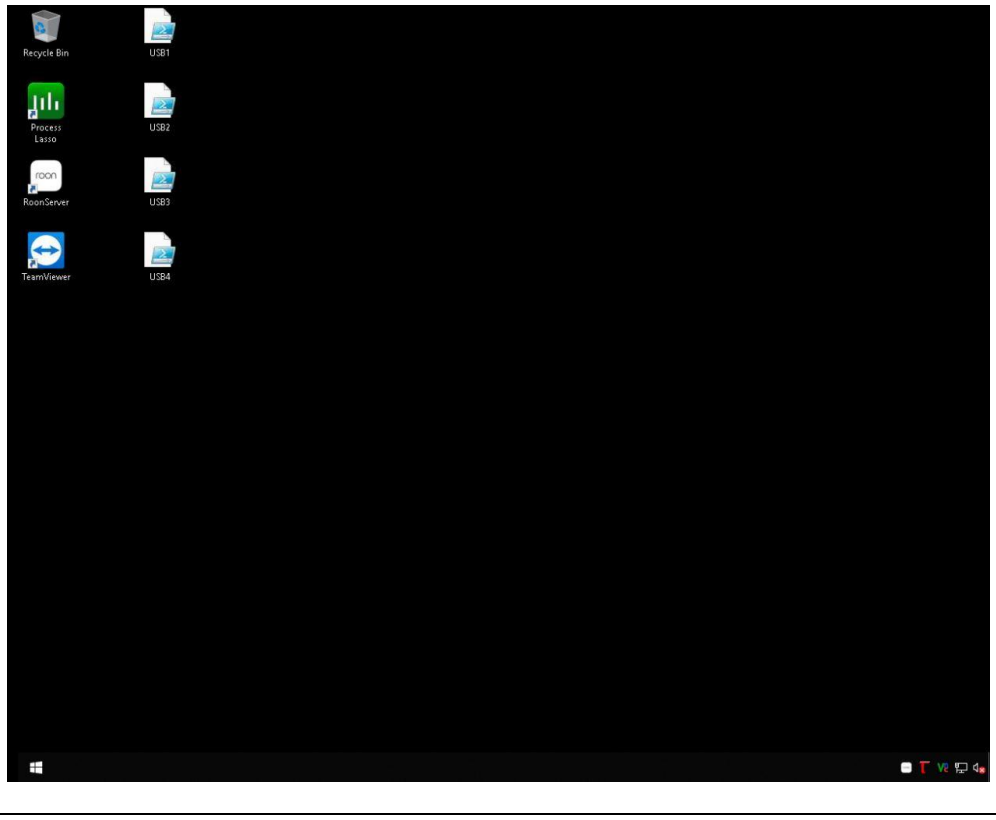
1. Open your browser.
2. Type *vnc://* followed by the IP address of the server in the search bar. For example: *vnc://192.168.1.23*

A popup appears, asking you if you want to open the screen sharing application.

3. Click *Yes*.

Tip If you don't know the password of the server, contact your supplier.

4. Enter the password of the server.
5. Click *Enter*.



The desktop of the server is shown and can now be controlled.

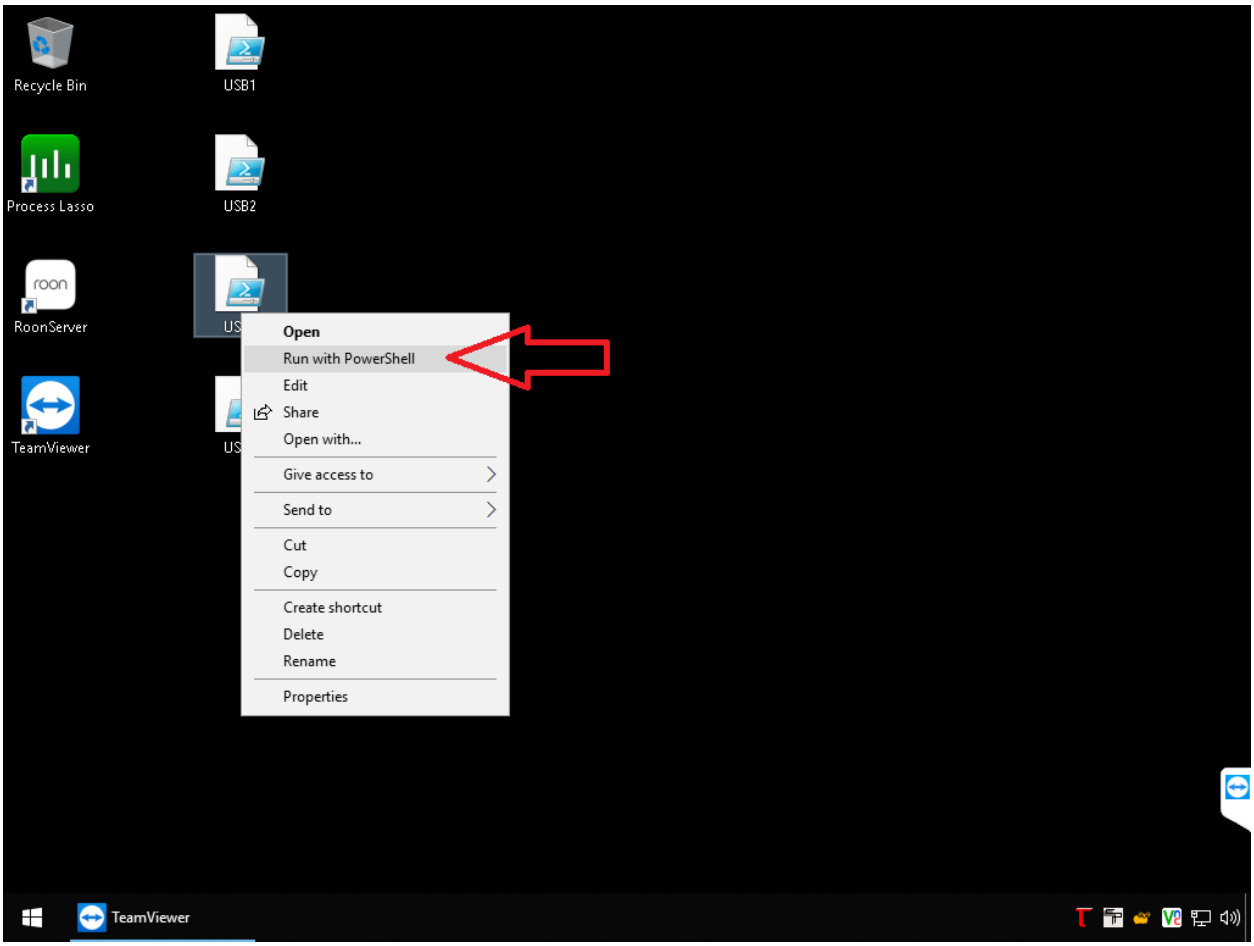
Tip If you need a keyboard, you can click the keyboard icon in the toolbar at the top of the screen to enable a virtual keyboard.

Step 3

Execute the USB profile. Please note that this will immediately reboot the Extreme.

The desktop will contain a range of USB Profiles. Select the one that is ideal for your DAC and execute it by right-clicking and selecting "Run with Powershell".

This will reboot the Extreme. After that, the profile will be active. It will remain active throughout successive reboots and even after changing from Roon to TAS and back.

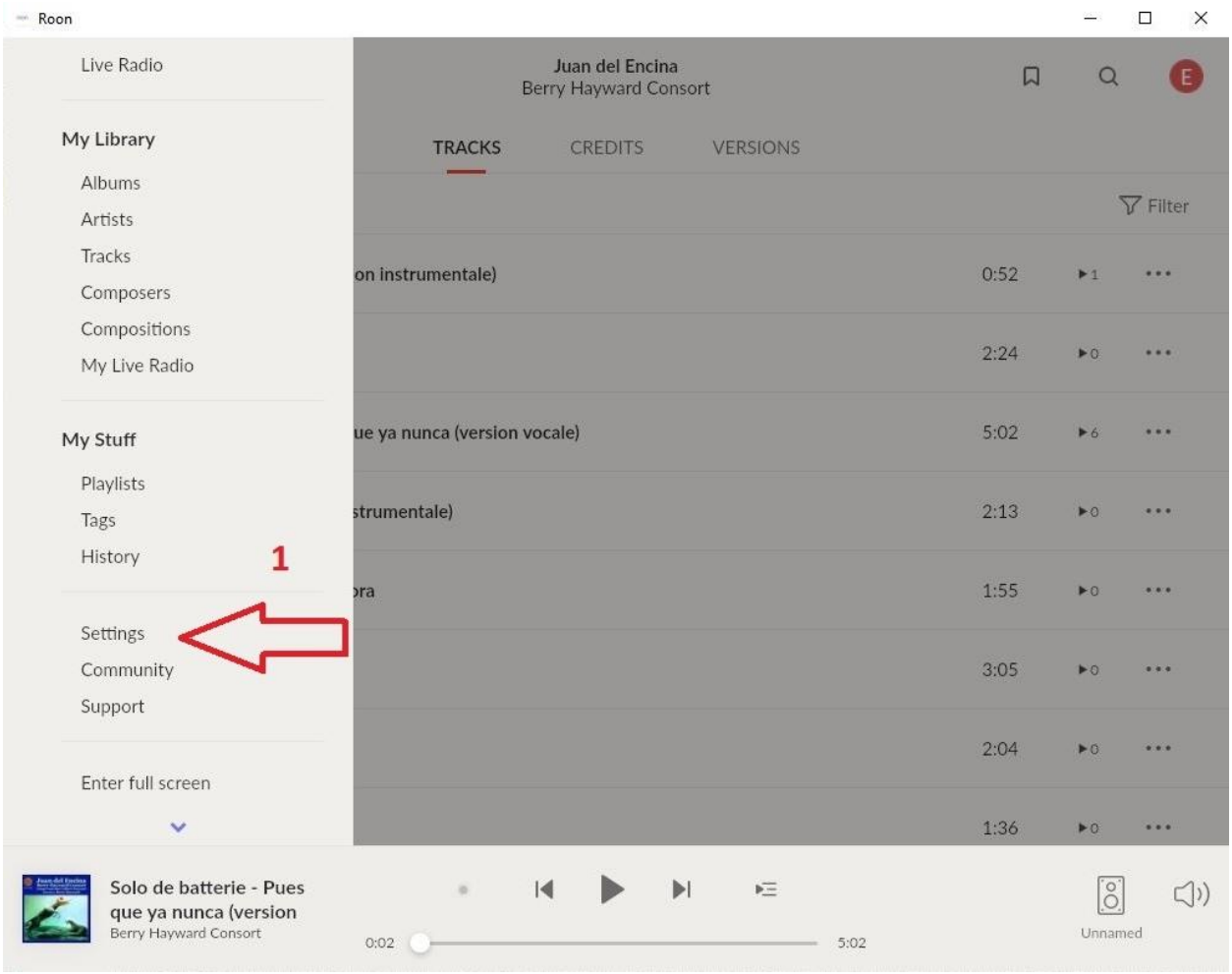


Step 4

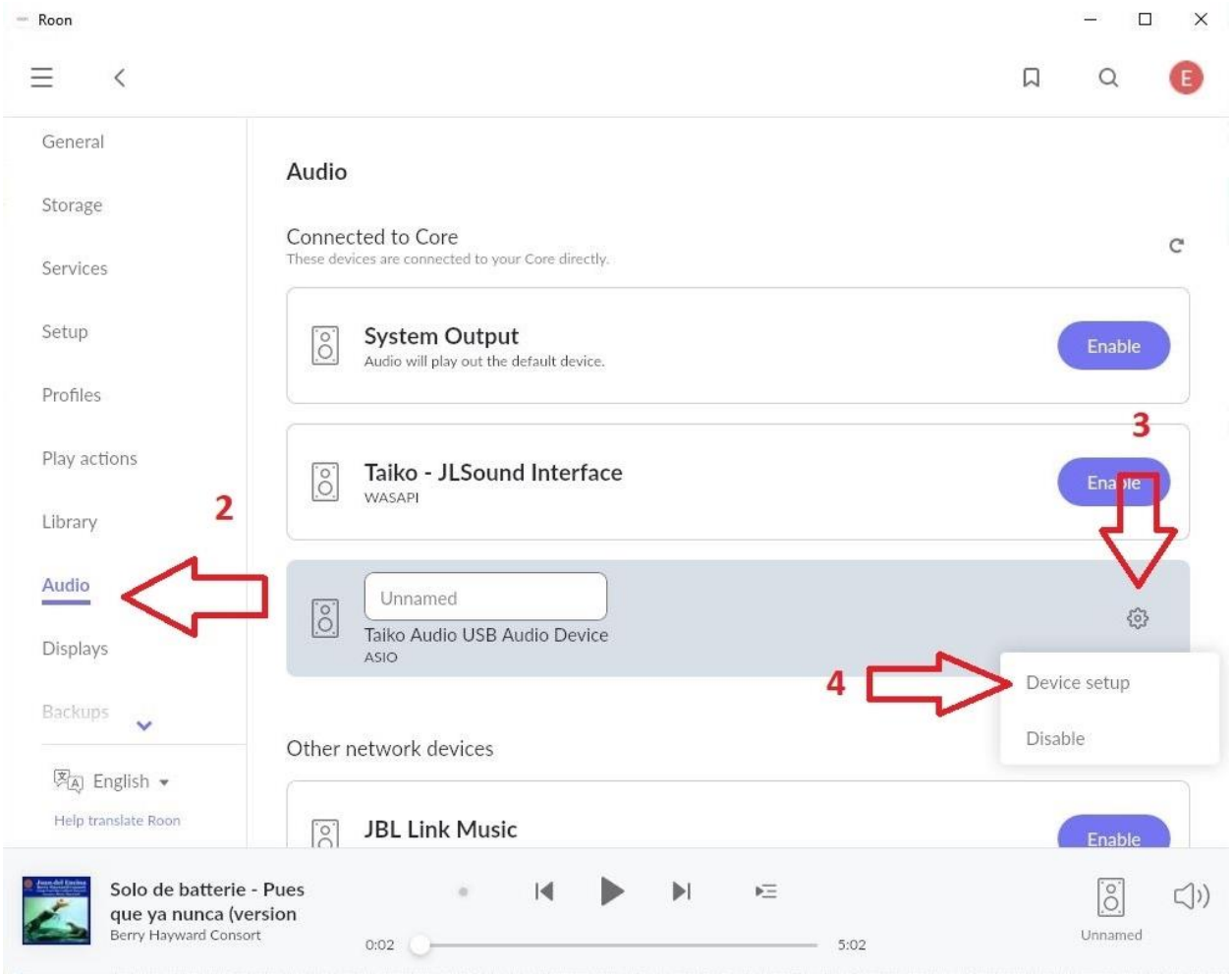
Select the appropriate output bit rate in Roon.

This is how you enter the correct bit rate that you looked up in the DAC table.

First, go to Settings (1).

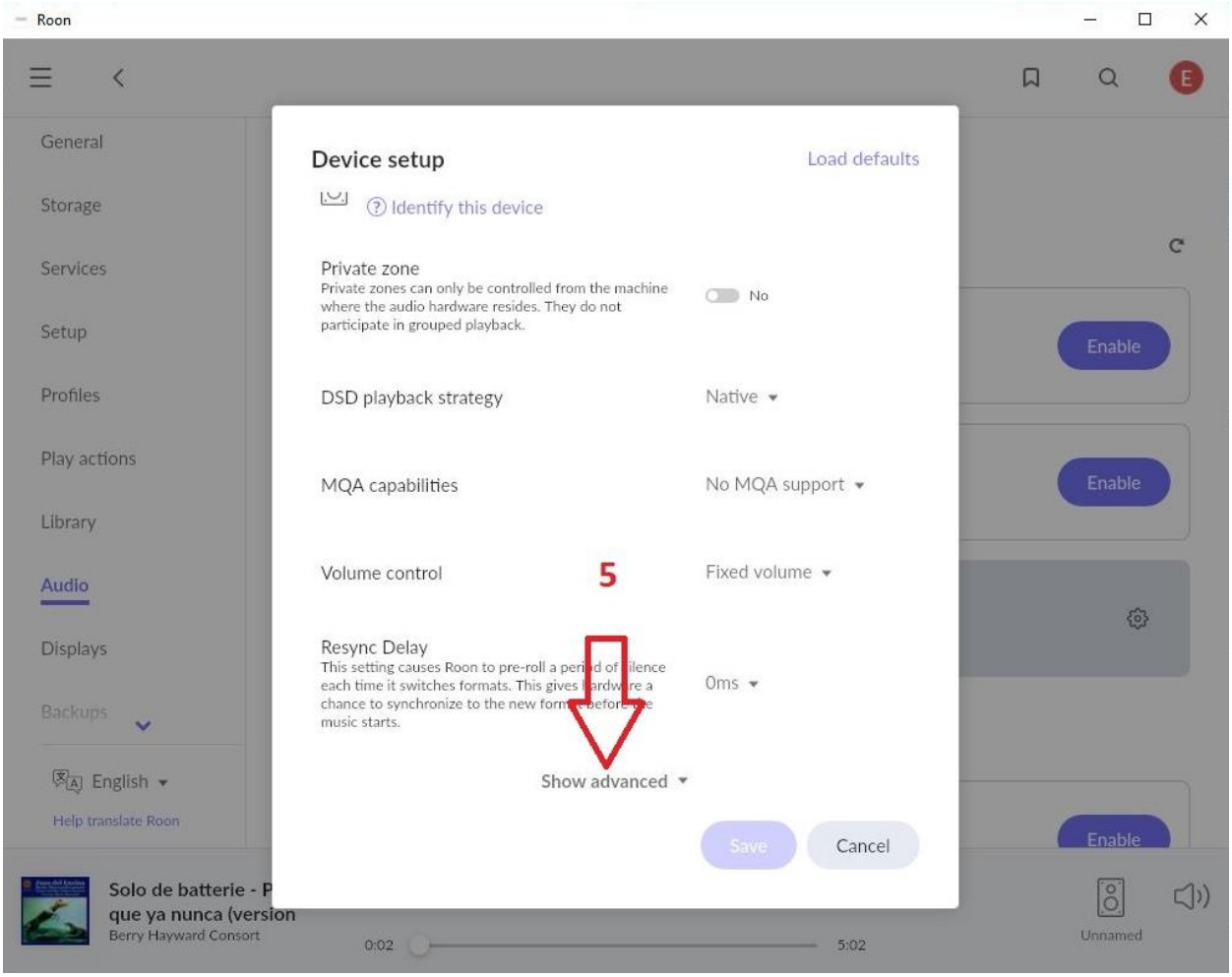


Then, select the Audio page (2).

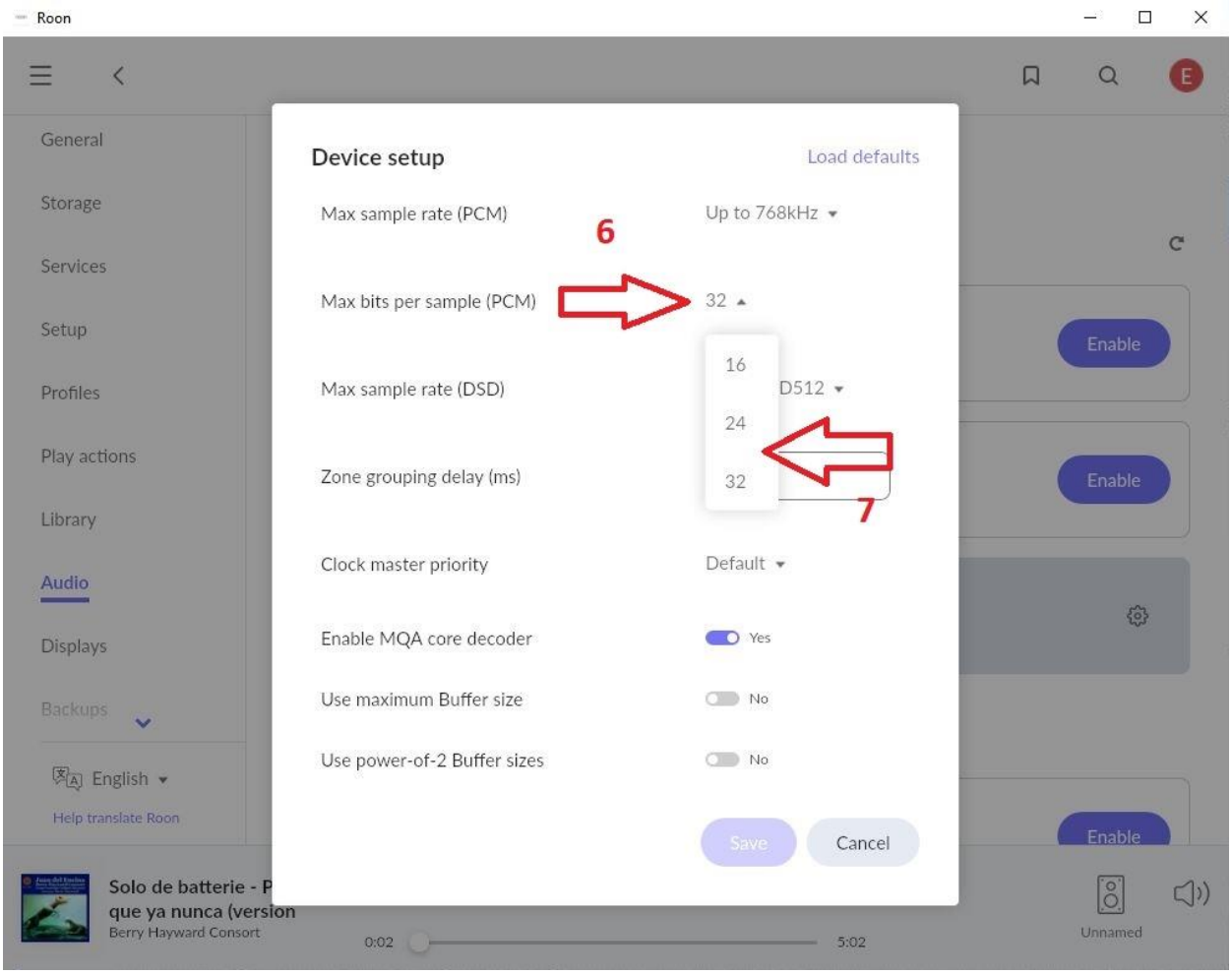


From there, find your main audio zone, which is normally the “Taiko Audio USB Audio Device”, and use the gear wheel on the right side to select Device Setup (4).

This brings up the below pop-up window.



Click on Show Advanced (5) and scroll down to the Max bits per sample (PCM) setting.



From the list of available bitrates (6), select the one that you noted before according to the DAC list (7).

Click Save, and you're done.

If you decide that you want to change the USB profile, simply repeat the same steps.

A new Remote Control app is in the making that will direct switching DAC profiles without the need to establish a remote desktop connection.

Step 5

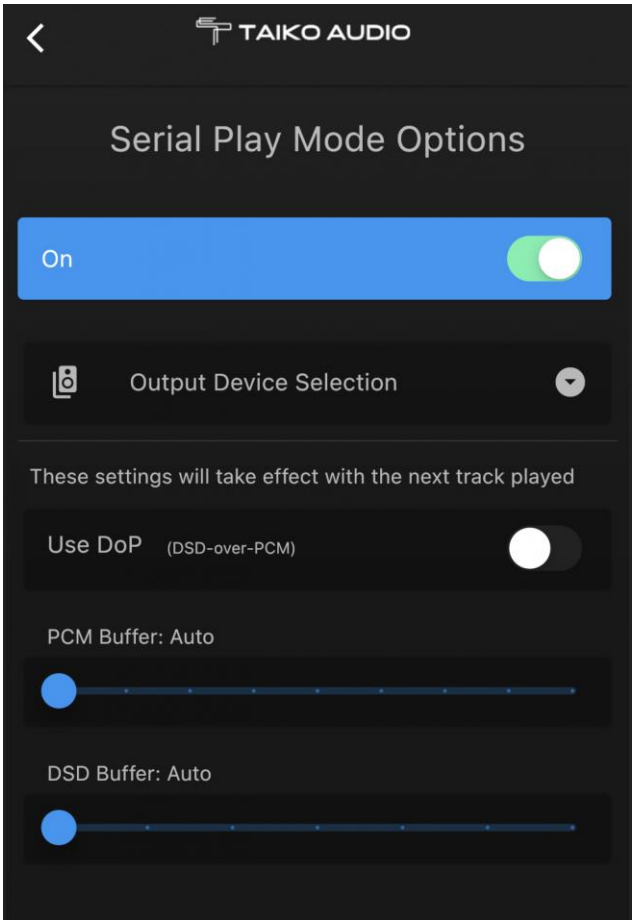
Setting TAS Buffers (only required if you have TAS installed)

As part of the recent update to the OS and USB driver, Roon has been made the default music player on system startup. To use TAS you will have to launch the TAS remote on your phone or tablet and switch to TAS.

Part of TAS has now been integrated into the new USB driver and this has led to major sonic benefit when using Roon. As a result, there is one setting in TAS that needs to be changed, also when you are using Roon.

To access the player settings screen, tap and hold your finger on the green player button and the relevant settings screen will open.

- Tap on Output Device Selection and ensure you have the appropriate ASIO device selected
- If our DAC must use DOP, select it here
- Choose your USB buffer sizes for PCM and DSD



- The TAS buffers need to be set to Auto
- Tap the top left arrow to save changes and Exit