



Antipodes Audio Music Server User Guide

v17.09

About This User Guide

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A printed version of this User Guide accompanies every Antipodes Audio Music Server sold.

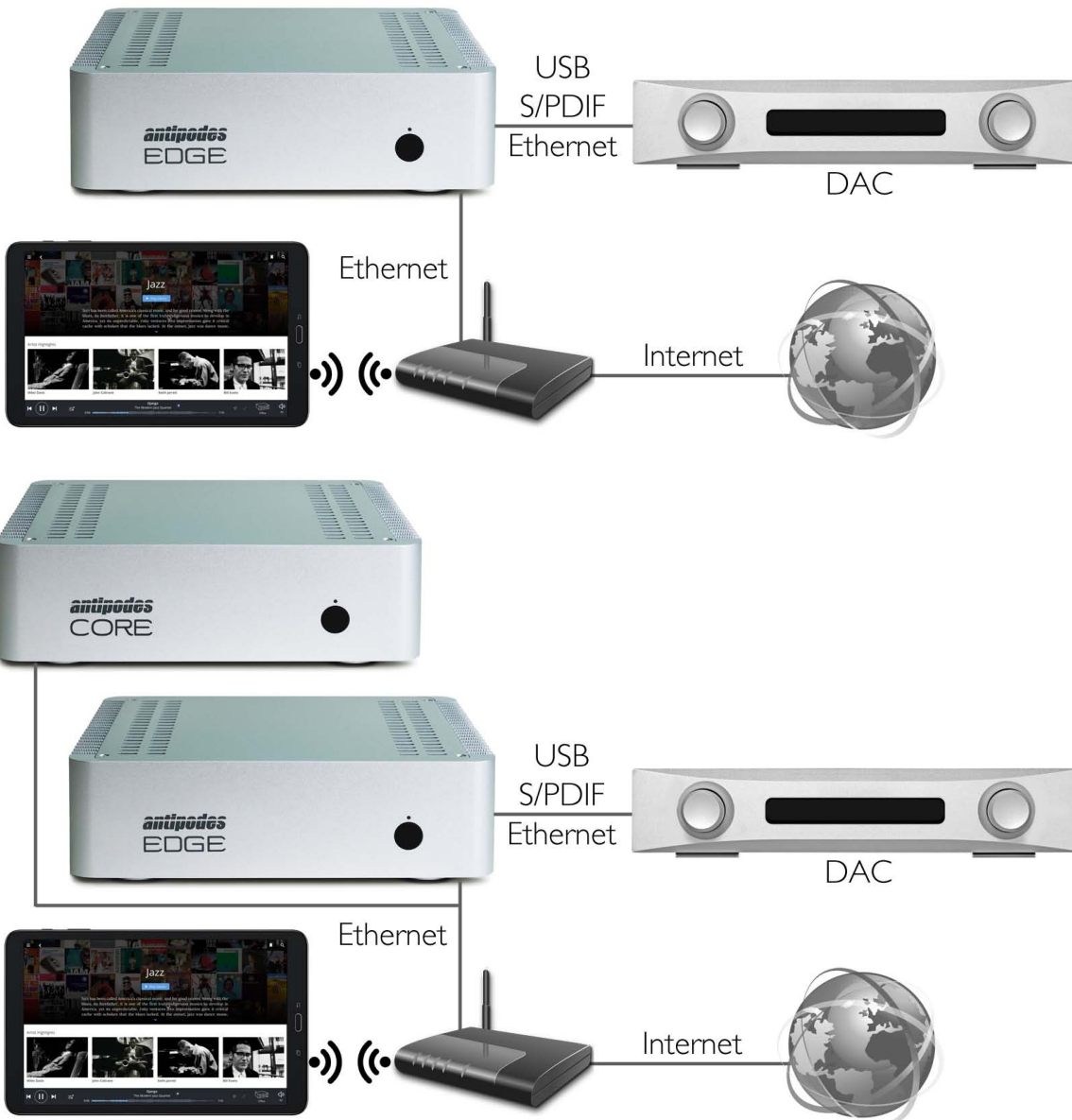
This User Guide is current at the time of publication, but be aware that the software is regularly updated. You should regularly update your Antipodes software at the Antipodes GUI, and you can view or download the latest version of this User Guide at the Antipodes Audio web site at any time. If you need further assistance you should email Antipodes Support - they are there to help you whenever you get stuck with anything

Note that Antipodes Audio music server software comprises three types of software that you will use:

1. **The Antipodes GUI.** This User Guide contains complete step-by-step instructions for how to use the Antipodes GUI to setup and manage your music server.
2. **File Sharing.** Antipodes Audio music servers are SMB compliant meaning you can manage music files on your music server using a computer or tablet attached to the same network. This avoids you needing to attach a keyboard, mouse or screen to the music server. Therefore it is very simple to copy, delete, rename, backup and re-tag your music files, and it is easy to download music direct to your music server, without needing to physically interact with the music server. It can all be done remotely from another computing device while your music server remains in your system. This User Guide explains how this works and provides examples. Because you will be using third-party applications, such as File Explorer on your Windows computer or Finder on your Mac computer, and these applications are subject to change and variations in setup, this User Guide can only provide examples to illustrate how to complete these tasks.
3. **Third-Party Applications.** Some music servers lock you into music player applications that are proprietary to the manufacturer of the music server. Antipodes Audio takes the opposite approach and focuses on fully integrating best of breed third-party music playback applications, and optimising the sound quality you can get from them. For this reason, this User Guide cannot provide you with complete and always up-to-date guides for each of these third-party applications. This User Guide covers getting started with each of the third-party applications. As well as contacting Antipodes Support, you can visit the web site of the application developer to access guides and get application support.

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1 Installation & Turning On/Off

INSTALLATION

In most cases you will be using the music server to play direct to a DAC. See One-Box Installation below for this case. See Multi-Box Installation below where you are using separate renderers from the server.

Set the Antipodes on its own shelf with good ventilation.

ONE-BOX INSTALLATION

Connections

Make 3 connections to the back panel of the Antipodes:

1. Mains power (for models with internal power supplies) or DC from the External PSU (all other models)
2. Wired Ethernet connection to your network
3. Signal output to your audio system - USB, S/PDIF, AES3 or Analog as fitted.

MULTI-BOX INSTALLATION

Connections

Make 2 connections to the back panel of the Antipodes that will run the Server application.

1. Mains power (for models with internal power supplies) or DC from the External PSU (all other models)
2. Wired Ethernet connection to your network

Make 3 connections to the back panel of the Antipodes that will run Renderer applications:

1. Mains power (for models with internal power supplies) or DC from the External PSU (all other models)
2. Wired Ethernet connection to your network
3. Signal output to your audio system - USB, S/PDIF, AES3 or Analog as fitted.

CABLES

Audiophile cables - power, Ethernet, USB, S/PDIF, AES3 - will generally improve sound quality.

One reason is the reduction in noise interference. All cables are both an antenna and transmitter to some degree and will pick up noise and transmit noise to nearby cabling.

Another reason is that the crystal and lattice structures of the metal wires have an impact on perceived sound quality. Wires with poor crystal or lattice structures create obstacles to the flow of electrons and the small eddy current effects are surprisingly audible.

Another reason is that the cable insulation can never absorb and release the field surrounding the wire as quickly as the signal changes in the wire itself, causing the signal to be smeared in time.

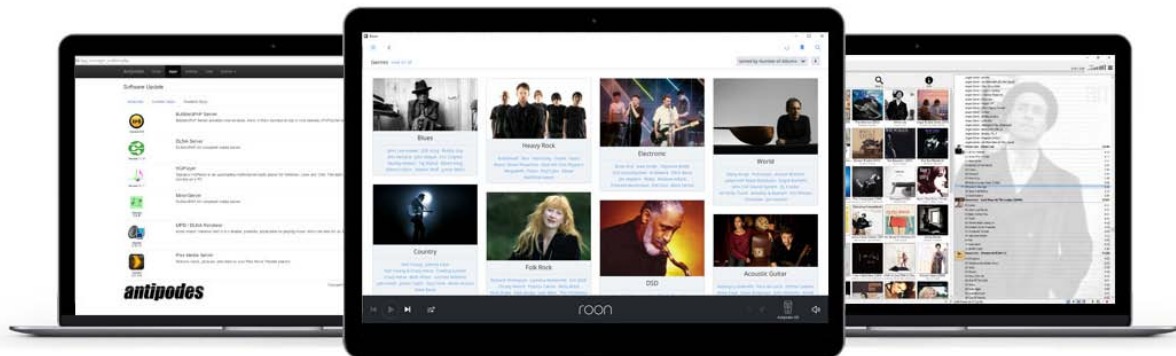
Audiophile cabling is designed to reduce these impacts and some firms do a better job than others. Let your ears be the judge, but do try better cabling.

NETWORK

Just because you successfully browse the internet, does not mean your network is of suitable quality to run a demanding client-server application. A small investment in your network setup may pay large dividends in the user experience.

Antipodes music servers are controlled over your network from computers, tablets or smartphones so must be connected to your network. Ripping CDs requires a connection to the internet to gather metadata.

Ideally, get an expert to install wired Ethernet from your router to your audio system as this will give you the best performance, particularly for internet streaming services. If that is not practical then you can bridge between your audio system and your router by using wifi access bridges or powerplugs, but performance may or may not suffer, depending on the circumstances.



TURNING ON & OFF

To power on an Antipodes music server, first make the rear panel connections and ensure the power supply is on. Then click the front panel power button briefly, and wait 2 minutes for the Antipodes to power up fully before proceeding.

To power off an Antipodes music server, click the front panel power button briefly, and wait a few seconds till the front power light extinguishes. Note that a minor incompatibility in the design of your DAC's USB input may hold a service open on the Antipodes and prevent shutdown, and the power light will remain on. If this happens, power off by clicking the front panel switch, wait 20 seconds and then complete the shutdown by holding the front panel button in until the power light goes off.

Only after the power light has gone off is it safe to remove power from the rear of the Antipodes. Failure to shutdown correctly may require the Antipodes to be serviced.

StandBy Mode

To maximise sound quality all critical power supply capacitors remain powered when power is applied to the rear of the Antipodes, even when the Antipodes is off at the front panel. This is called standby mode.

If you wish to shutdown your Antipodes for extended periods we recommend you leave the Antipodes in standby mode, that is, powered at the rear of the Antipodes. If power is removed for more than a few

minutes, the Antipodes may take up to three days of being powered to return to its optimum sound quality. Leaving the Antipodes in standby mode avoids this warm-up period.

There is a downside to putting your Antipodes into standby mode with some DACs, due to the way different DACs are designed. Your DAC may power down its USB input when you put the Antipodes into standby and may fail to power the USB input back up again when the Antipodes is restarted. The problem is caused by poor design of the DAC's USB input.

The simplest solution is to restart your DAC after restarting your Antipodes. Restarting your DAC may mean turning it off at the back panel and back on again. And DACs with external power supplies may need the power to be turned off and on again at the external power supply, or at the wall if it does not have a power switch.

Burn In Period

Your Antipodes music server will only reach peak performance after about two full weeks of use. During the first 100 hours of use the sound can be relatively poor. At around 250 hours the sound will be good. Small improvements will be heard after that, perhaps for a month or more.

The reason for this is that the high quality capacitors used take a long time to form and therefore for the power supplies to fully stabilise. Digital circuits need very nearly perfect power supplies before they can perform as designed.

2 Opening The Antipodes GUI

You never need to connect a mouse, keyboard or screen to an Antipodes music server. To setup an Antipodes music server, make the connections described in the previous section, then turn your Antipodes on and wait 2 minutes.

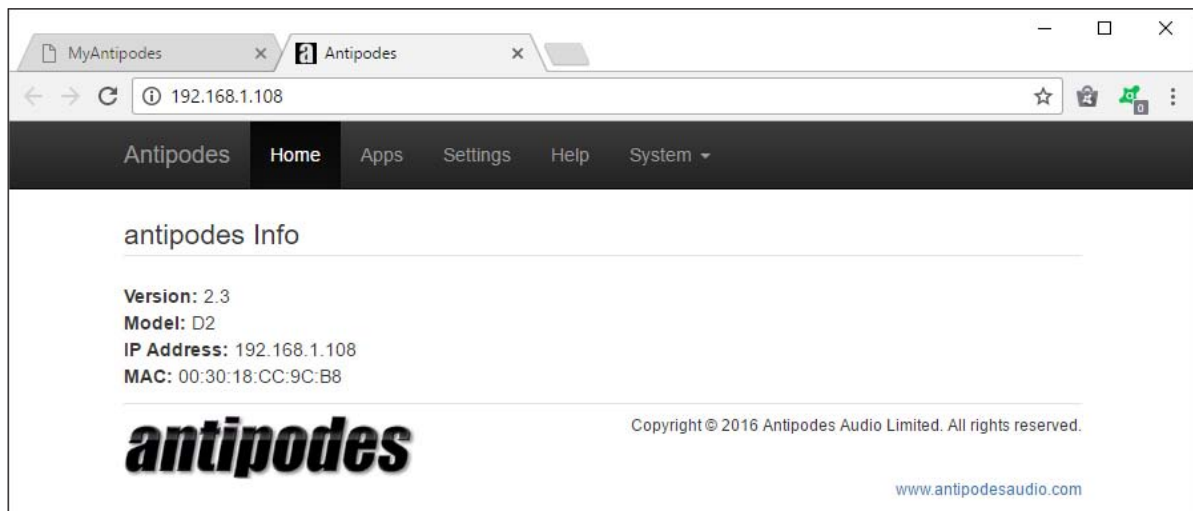
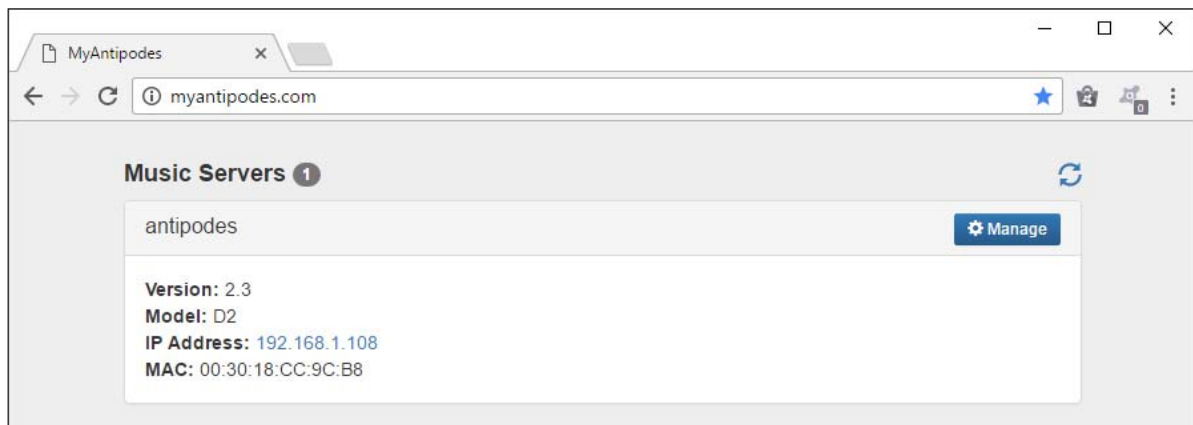
Open a browser (eg. IE, Chrome, Firefox Safari etc) on a computing device (eg. desktop, laptop, tablet or smartphone) and browse to this address:

myantipodes.com

Click on the 'Manage' button to open the Antipodes GUI for that music server.

The GUI is intuitive and you can just look around and try things.

The next sections show you some basics for getting started with playing music. If you cannot open the GUI for any reason or are confused about how to accomplish something in the GUI, please contact Antipodes Support for assistance first.



3 Playback Solutions Overview

Playback solutions typically require two applications:

- a server application for managing your files and for selecting what plays; and
- a renderer application that turns the file into a music signal and sends it to your DAC.

With Antipodes music servers you can choose to run both the server app and the renderer app on the same device, for a simple and complete solution.

Or you can run them on separate devices. For example the server app might run on one Antipodes and the renderer app might run on another Antipodes.

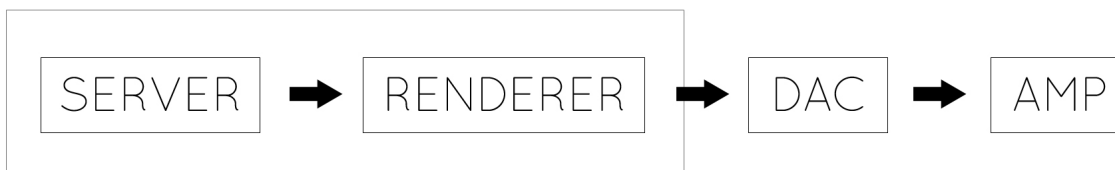
Or you might do both:

- run the server application on one Antipodes;
- run the renderer application on the same Antipodes to play direct to a DAC; and
- run the renderer application on other Antipodes devices on your network to play from the library on the first Antipodes.

Most of this guide refers to running both the server app and the renderer app on the same device, but the principles are the same for the other options.

With Antipodes music servers, you have the choice of:

- Three complete playback solutions (incorporating both server & renderer apps):
 - **Roon** - Roon Server & Roon Ready
 - **Squeezebox** - Squeezebox Server & Squeezelite
 - **MPD** - A special case as it is just a renderer app but it can play from the Antipodes library.
- Two separate renderer solutions.
 - The **HQPlayer NAA** solution enables your Antipodes to be a renderer to play from HQPlayer. HQPlayer (the server app) needs to be running on computer elsewhere on your network.
 - The **MPD** solution enables your Antipodes to be a renderer to play from a DLNA/UPnP server on your network. The server app could be on an Antipodes or on another device.
- A range of server solutions, including **DLNA/UPnP** and **Plex Media Server**, *plus* your Antipodes can be easily configured to be a music source for a **SONOS** system.



The most popular playback solutions on Antipodes music servers are Roon (for which you need to obtain a subscription), and free options Squeezebox and MPD.

Therefore the early parts of this guide cover these three most popular solutions.

The other solutions are covered later in the guide, and remember, you can use as many solutions at the same time as the number of renderer devices you have.

To start playing music using Roon, Squeezebox or MPD, there are three setup steps:

1. Setup the renderer app.
2. Setup remote control of the server app.
3. Get your music into the server app's library.

The next sections of this guide cover these three steps for the three popular playback solutions, to get you underway playing your with your Antipodes.

4 Setup A Renderer

INTRODUCTION

At the myantipodes.com screen, you will see the Antipodes devices attached to your network.

Most users use a single Antipodes for both server and renderer, and so it will be the only one shown in myantipodes.com. Click on 'Manage' to open the GUI for the Antipodes you will use as a renderer (the one that sends a digital audio signal to your DAC over USB, SPDIF or AES3, or the one that sends an Analog signal to your amplifier).

At the Antipodes GUI, select the menu item 'Settings'. You should now see a screen like the one shown below.

Note that all Antipodes have the same application suite available to them. In Section 8 of this guide, we cover how you can install/uninstall apps whenever you wish.

Some installed apps have user settings and these are

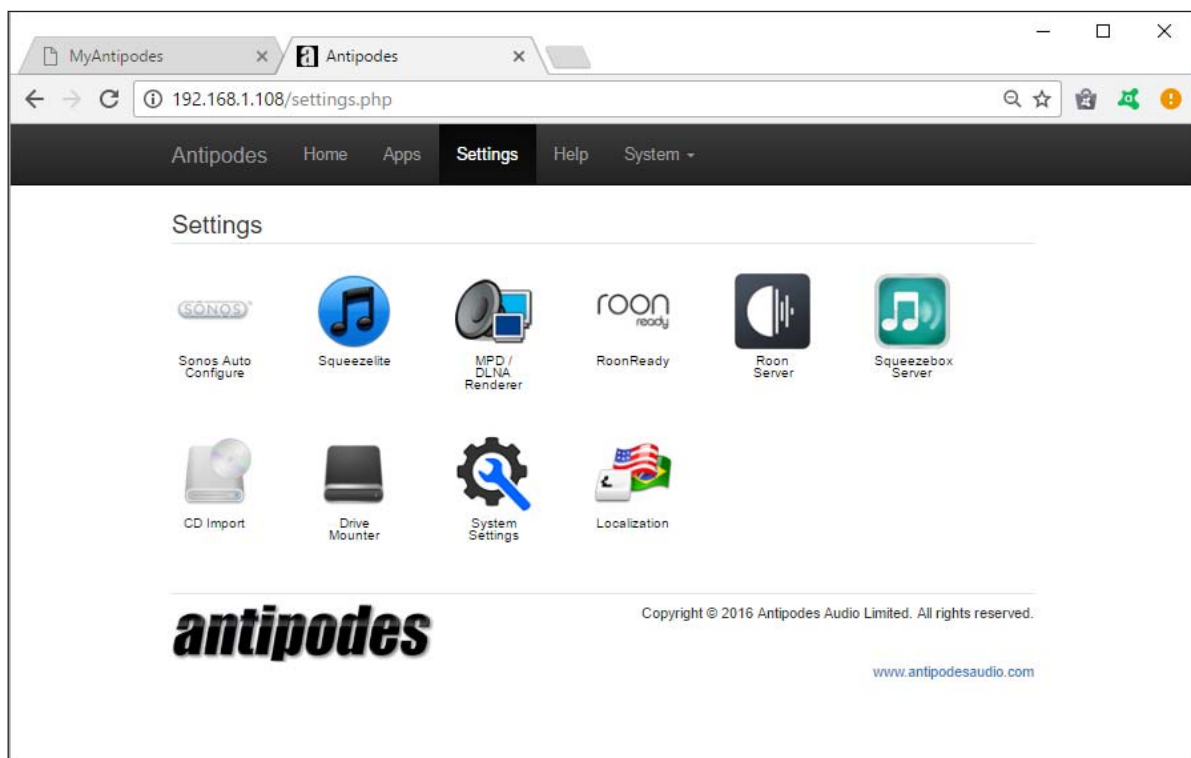
the only ones shown on the 'Settings' screen.

At the 'Settings' screen you will see icons for the installed renderer apps. In the screen shot below, these are Squeezelite, MPD and Roon Ready.

To setup one of these renderer apps, you begin by clicking on the relevant icon, to open that application's settings.

Each renderer app settings screen is a little different, but there are two main settings:

- Regardless of what physical audio outputs are fitted to your Antipodes, the renderer needs to know whether to load the driver for Analog Output, SPDIF (& AES3) Output, or USB Output.
- The renderer also needs to know how to send DSD files to your DAC. For example, as PCM files, DoP, Native DSD etc.



4.1 Setup Roon Ready

At the Antipodes GUI:

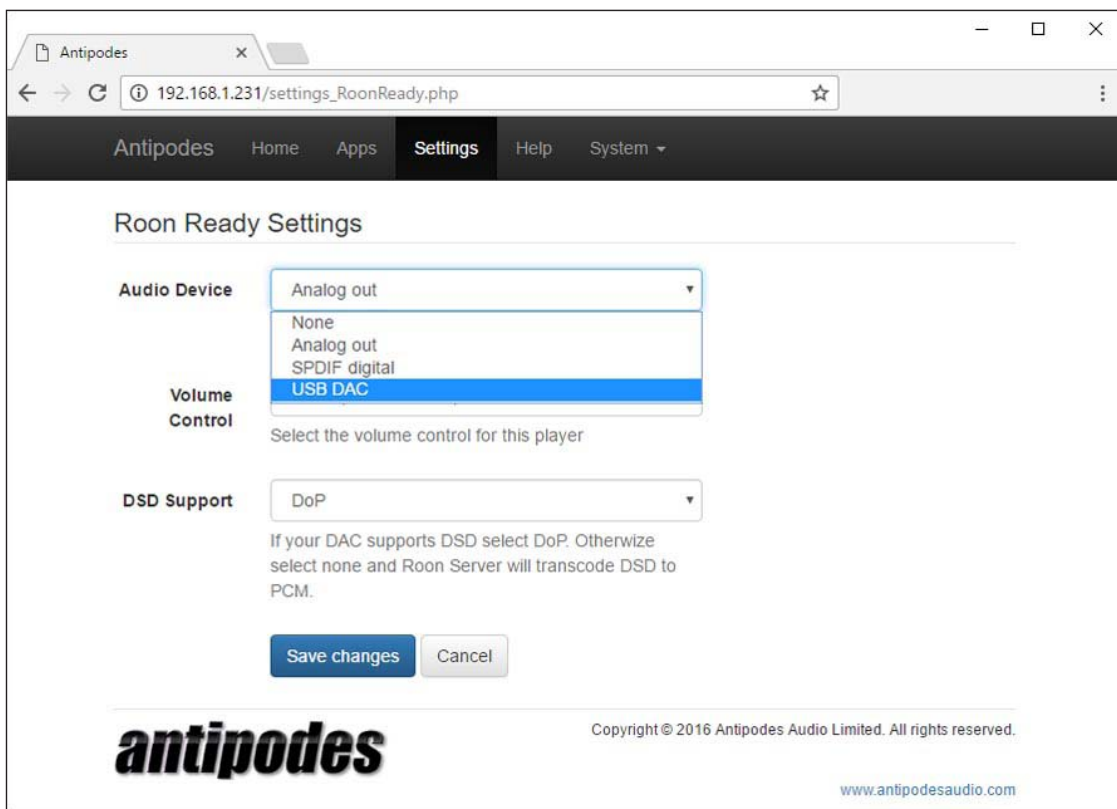
- Select the 'Settings' menu item
- Click on the 'Roon Ready' icon

This will open the screen shown below. Now:

- Select the correct output driver

- Select how you want to control volume (if you will use your preamplifier select 'None')
- Select how your DAC should receive DSD files.
- Click on 'Save Changes'.

You can now proceed to Section 5 to setup remote control of the Roon Server application.



4.2 Setup Squeezeelite

At the Antipodes GUI:

- Select the 'Settings' menu item
- Click on the 'Squeezeelite' icon

This will open the screen shown below. Now:

- Select the correct output driver

- Select how your DAC likes to receive DSD files
- Leave the other settings at the default values
- Click on 'Save Changes'.

You can now proceed to Section 5 to setup remote control of the Squeezebox Server application.

The screenshot displays the 'Squeezeelite Settings' page in a web browser. The browser's address bar shows the URL '192.168.1.10/settings_squeezeelite.php'. The page has a navigation menu with 'Antipodes', 'Home', 'Apps', 'Settings', 'Help', and 'System'. The main content area is titled 'Squeezeelite Settings' and contains the following fields and options:

- Player Name:** antipodes (text input)
- Audio Device:** Analog out (dropdown menu, with options: None, Analog out, SPDIF digital, USB DAC)
- Buffer Size:** (text input)
- Period count:** (text input)
- Timeout:** (text input)
- Rate switching delay:** (text input)
- Sample format:** auto (dropdown menu)
- DSD Support:** DoP (dropdown menu)
- DSD and PCM switch delay:** (text input)
- Player MAC address:** 00:52:14:8A:26:16 (text input)

At the bottom of the form, there are two buttons: 'Save changes' and 'Cancel'. The footer of the page includes the 'antipodes' logo, the copyright notice 'Copyright © 2016 Antipodes Audio Limited. All rights reserved.', and the website URL 'www.antipodesaudio.com'.

4.3 Setup MPD

At the Antipodes GUI:

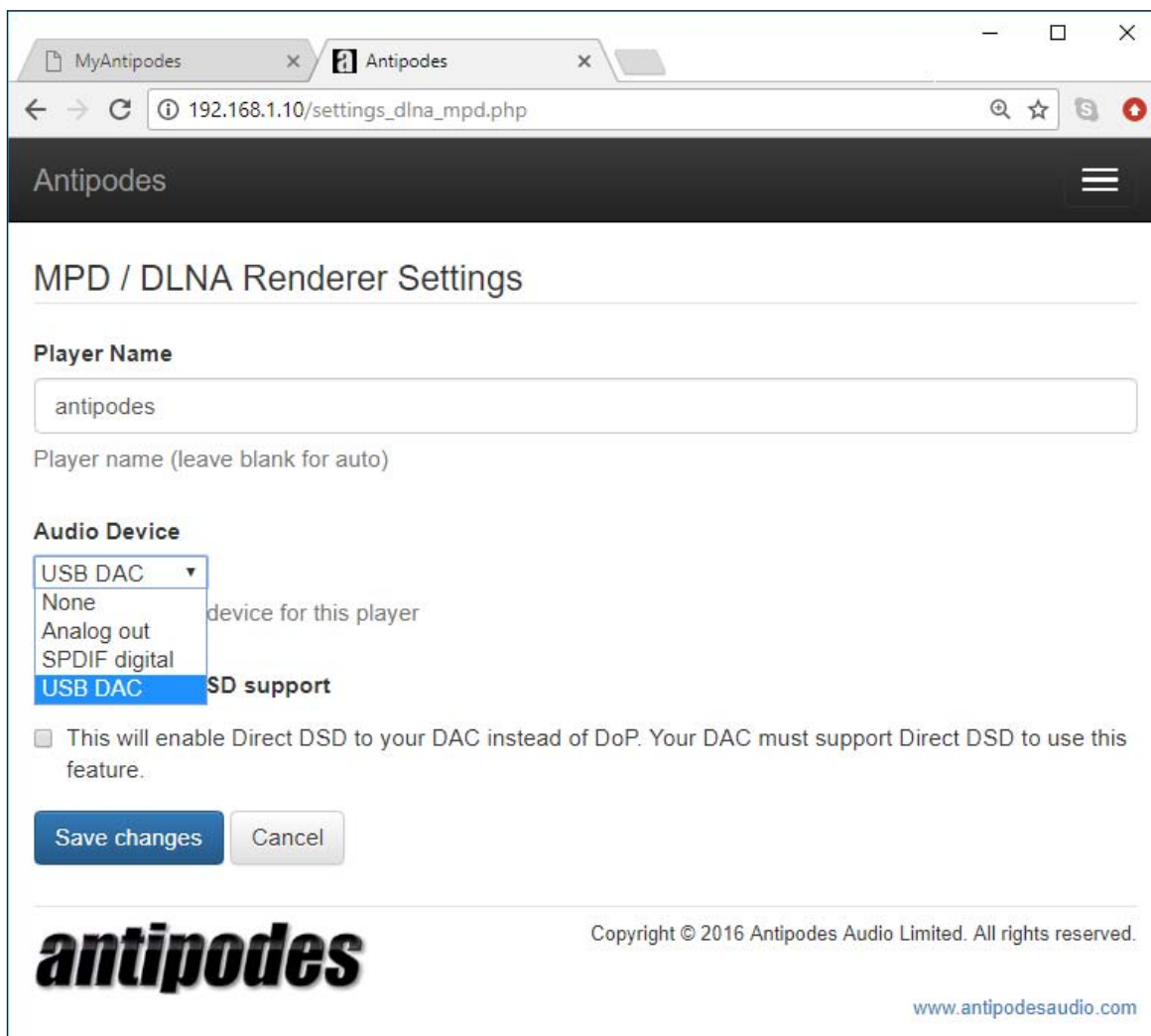
- Select the menu item 'Settings'
- Click on the 'MPD' icon

This will open the screen shown below. Now:

- Select the correct output driver

- Select how your DAC should receive DSD files.
- Click on 'Save Changes'.

You can now proceed to Section 5 to setup remote control of the MPD application.



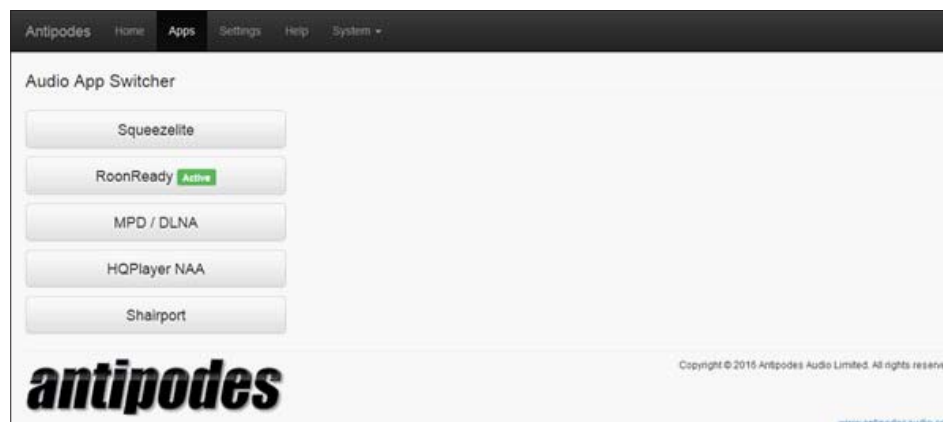
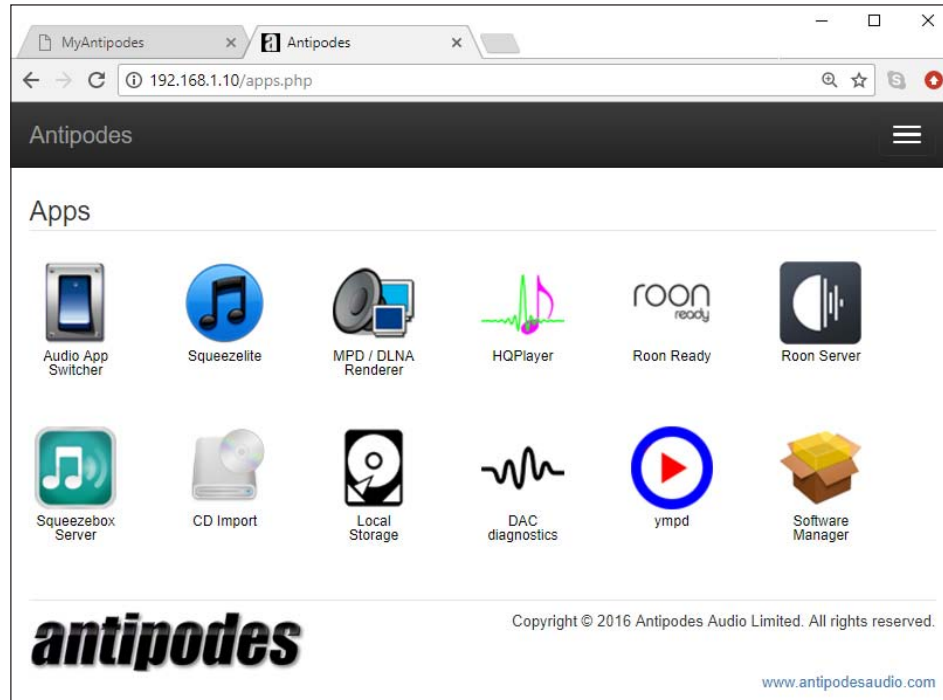
4.4 Switch Between Apps

You can setup several renderer applications at the same time. The last one you setup will be the 'active' application.

You can also easily switch between them.

At the Antipodes GUI:

- Select the menu item 'Apps'
- Click on the 'Audio App Switcher' Icon.
- Click on any renderer app to make it 'active'.



5 Setup Remote Control

INTRODUCTION

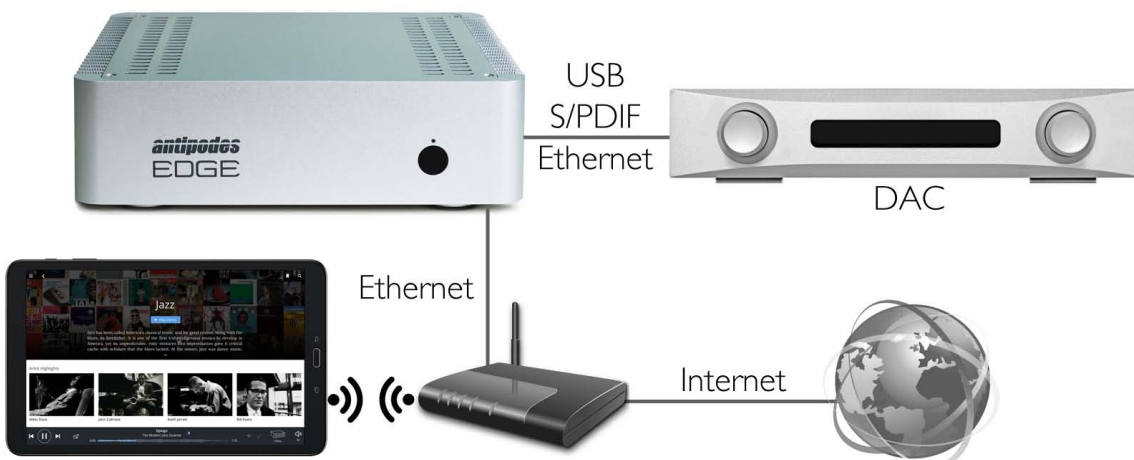
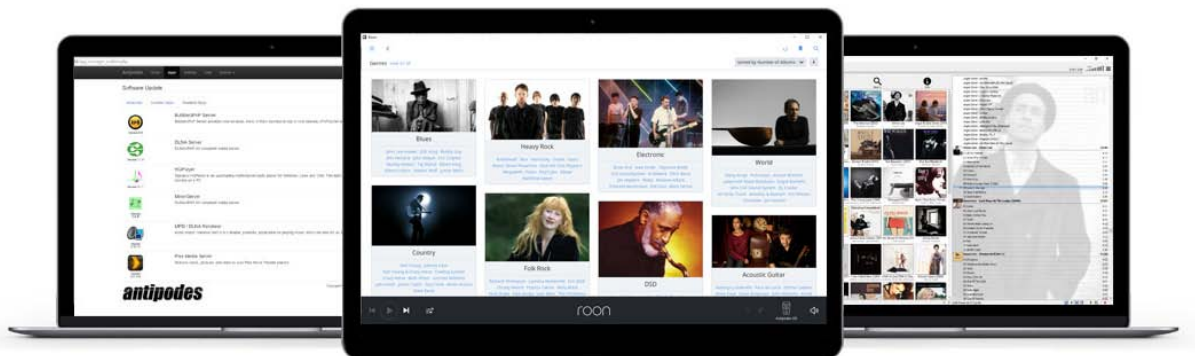
To control what your Antipodes plays, you need to setup remote control on a desktop, laptop, tablet or smartphone that is connected to the same network as the Antipodes.

The Antipodes and remote control device talk to each other over your network. The Antipodes displays your music files and streaming services on the remote device, and you use the remote device to tell the Antipodes what to play.

The remote control applications are simple and intuitive to setup and use.

The steps involved are:

- download the remote control application to your device
- complete the setup of the remote control application, and set it to control the Antipodes.
- use the remote control application to play music.



5.1 Setup Control Of Roon

LICENSING

Roon Server is already installed on your Antipodes. But to control Roon Server remotely you need to download and install Roon to a desktop, laptop, tablet or smartphone connected to the same network as the Antipodes.

You need a license from Roon Labs to run Roon Server on the Antipodes, but using Roon as a remote control on another device does not require a license. You can download Roon to multiple devices and use them all to control your Antipodes with one license.

If you are not sure whether you wish to meet the cost of a Roon license then you should try a Roon free

trial first.

DESKTOP/LAPTOP

To control Roon Server on your Antipodes from your desktop or laptop, open a browser on the device and browse to 'roonlabs.com' and find the 'Download' page.

Select the download you need from the three options at the top of the list of options on the downloads page, to match the operating system on your desktop/laptop (see the screen shot below).

Once the download is complete, open it to run the installation process. Go to the next page in this guide for detailed help with installation.



TABLET/SMARTPHONE

To control Roon Server on your Antipodes from your tablet or smartphone, use your tablet or smartphone to search for 'Roon' at the App Store for your device.

Download the Roon app and complete the installation steps. Go to the next page in this guide for detailed help with installation.

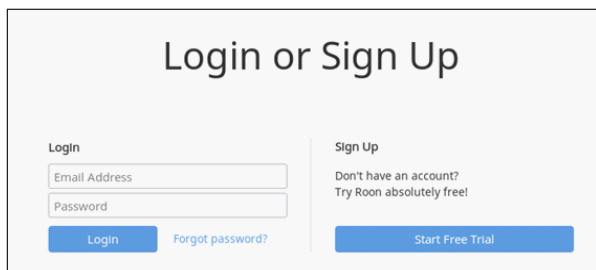
The Roon installation process is intuitive, but we have included some guidance here to assist you.

Your Antipodes needs to be connected to your network and powered on, and the Roon installation process will display devices that are running Roon on your network.

Click 'Connect' for your Antipodes server.



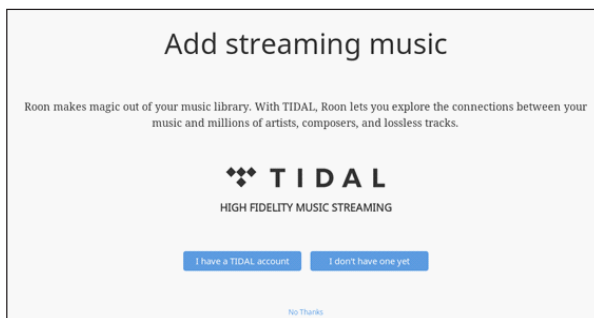
You will then see a login screen. You can enter your Roon license credentials here, or sign up for a free trial.



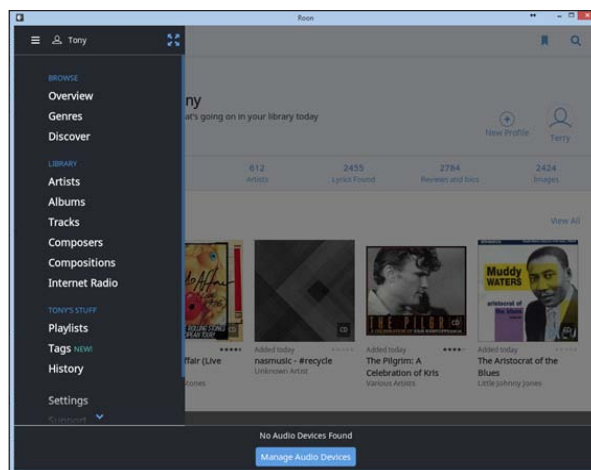
You will be asked for the location of your music files. You do not need to complete this step for files located on your Antipodes as they will be added to the Roon library automatically.

But you can use this screen to add files on a 'network share', such as a NAS, at this screen. This option can be set now or later via 'Settings' and you can click on 'Next' to skip this step.

You will be asked to add other services such as TIDAL streaming. You can add this later, but if you have a TIDAL account, enter your credentials at this screen. TIDAL streaming is integrated seamlessly with Roon for an excellent total experience, and is highly recommended.



When you have successfully logged into Roon you will be presented with a Roon application screen.



The next step is to enable the Antipodes as a Roon renderer.

Click on 'Manage Audio Devices' at the bottom of the screen. In the pop-up screen, scroll down to the Roon Ready section, and locate the Antipodes. Click on the 'Enable' button and type in a name for the player.



Depending on your setup you may need to select the 'Audio Zone' you wish to control.

Roon will automatically import music files on the Antipodes into the Roon library. If the Antipodes is new then it will only include the Demo Track.

You should now go to Section 6 of this guide to learn how to get music files onto your Antipodes and imported into the library of your Server applications.

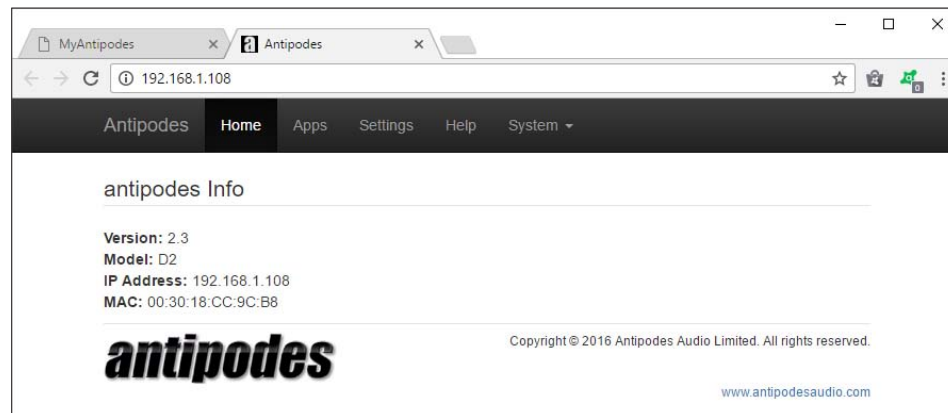
5.2 Setup Control Of SqueezeBox

Squeezebox Server is already installed on your Antipodes and is free to use. However the remote control applications for download to tablet and smartphone have a small charge. As with Roon, visit the relevant App Store for your tablet/smartphone and search on Squeezebox. We recommend iPeng

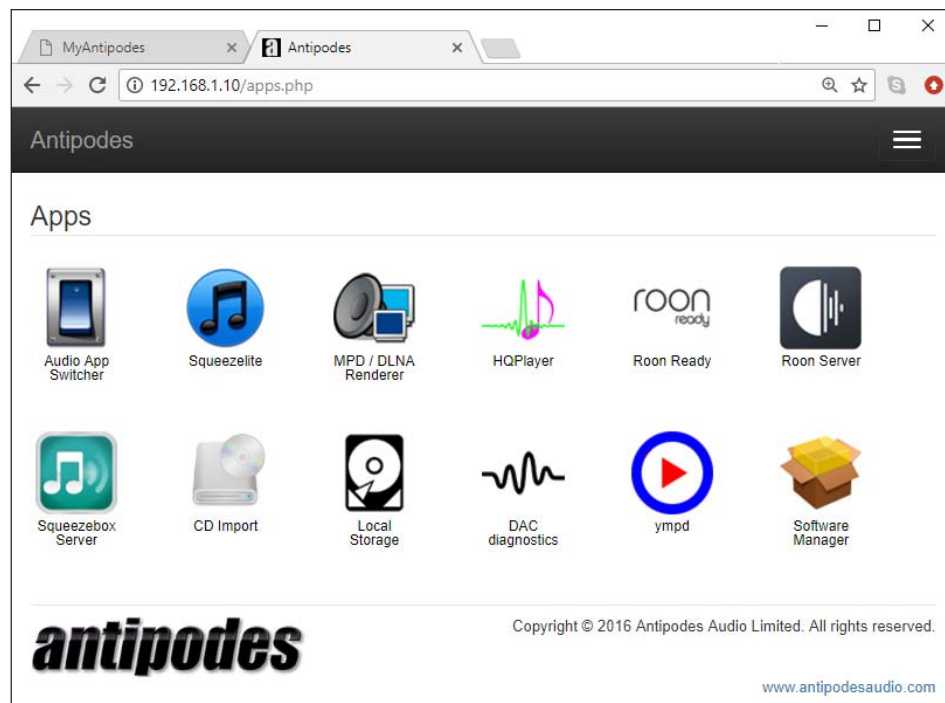
for iPads and Orange Squeeze for Androids.

DESKTOP/LAPTOP

You can use your Desktop or Laptop computer to control what plays. To do this, open the Antipodes GUI and click on the 'Apps' menu item.



Click on the Squeezebox Server icon.



This will open the admin interface for Squeezebox Server in a new tab. This interface not only allows you to play music, but it also allows you to manage the setup of Squeezebox Server.

You get much better interfaces for playing music from Tablet and Smartphone Apps, but it is useful to get to know the Squeezebox admin interface available on Desktop and laptop, because of the large range of features included.

At the top right hand corner of the screen you will

see the name you previously gave to the Squeezelite player, in this example 'Antipodes_USB'. If the name does not show there click the downward arrow and select it from the displayed list.

The pane at the left of the screen, headed 'Home' is where you select the source of the music you want to play. You can select from 'My Music', 'Radio' or 'My Apps'. The pane on the right hand side will display the music you have selected to play.

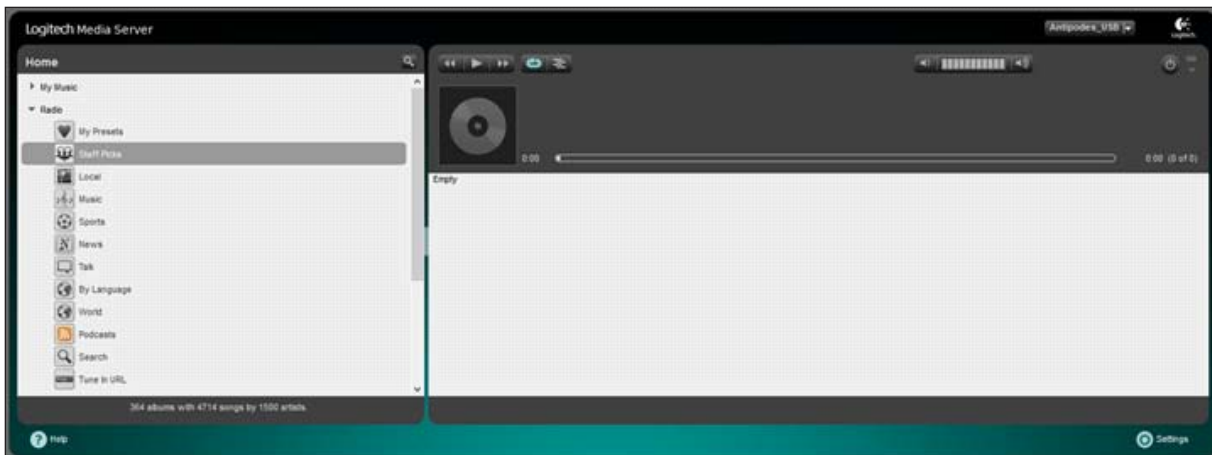
Here is a quick run through of the playback options.

My Music consists of music tracks stored on the Antipodes, on network-connected NAS drives, or on other shared devices in your home network. You have a wide range of selection choices available,

from 'Artists' or 'Albums' to 'Playlists' that you have compiled and stored, and random mixes of tracks from your music library:



Radio gives you access to a wide range of streamed Internet radio stations from around the world

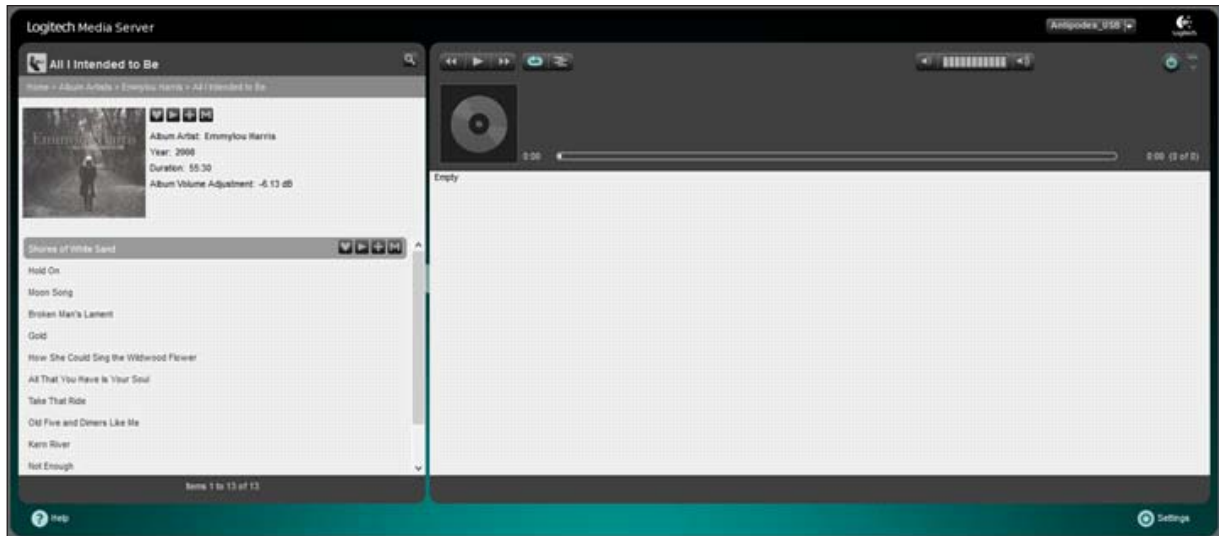




My Apps lists streaming services you have setup and are subscribed to, such as Tidal, Spotify, Pandora, Rhapsody, Qobuz, and Deezer.

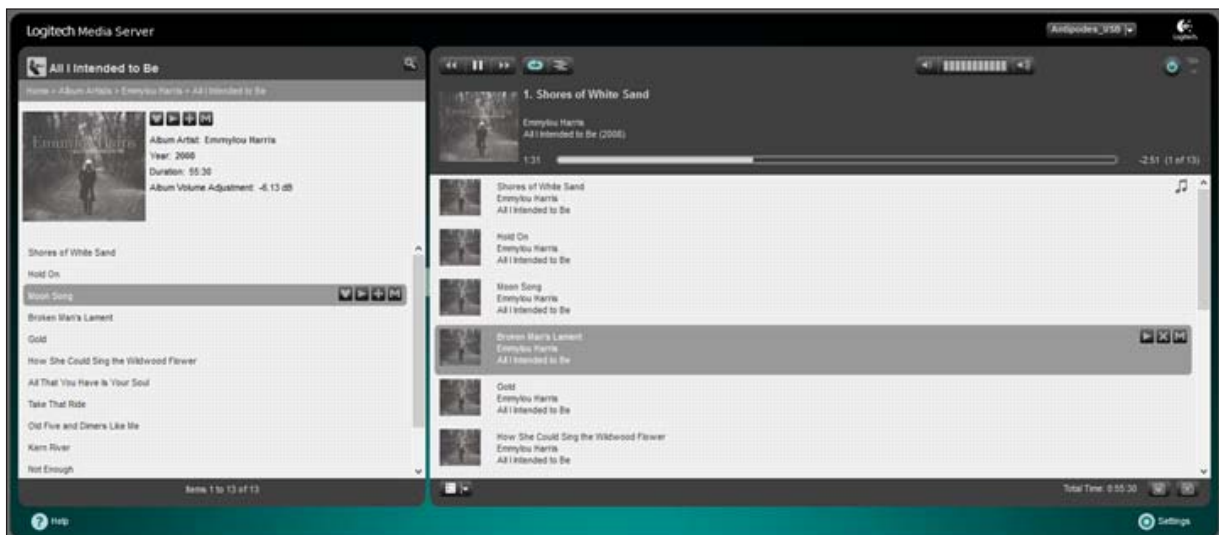
You need to have a 'mysqueezebox.com' login to register for some of these streaming services.

PLAYING MUSIC

To play music you make your selection from one of the options in the left hand pane:



You then click on the  or the  symbol to add the selection to a 'playlist' in the right hand pane:



The controls at the top of the 'playlist' pane allow you to play or pause the music.

To clear the 'playlist' pane click the  icon at the bottom right of the screen.

STREAMING SERVICES

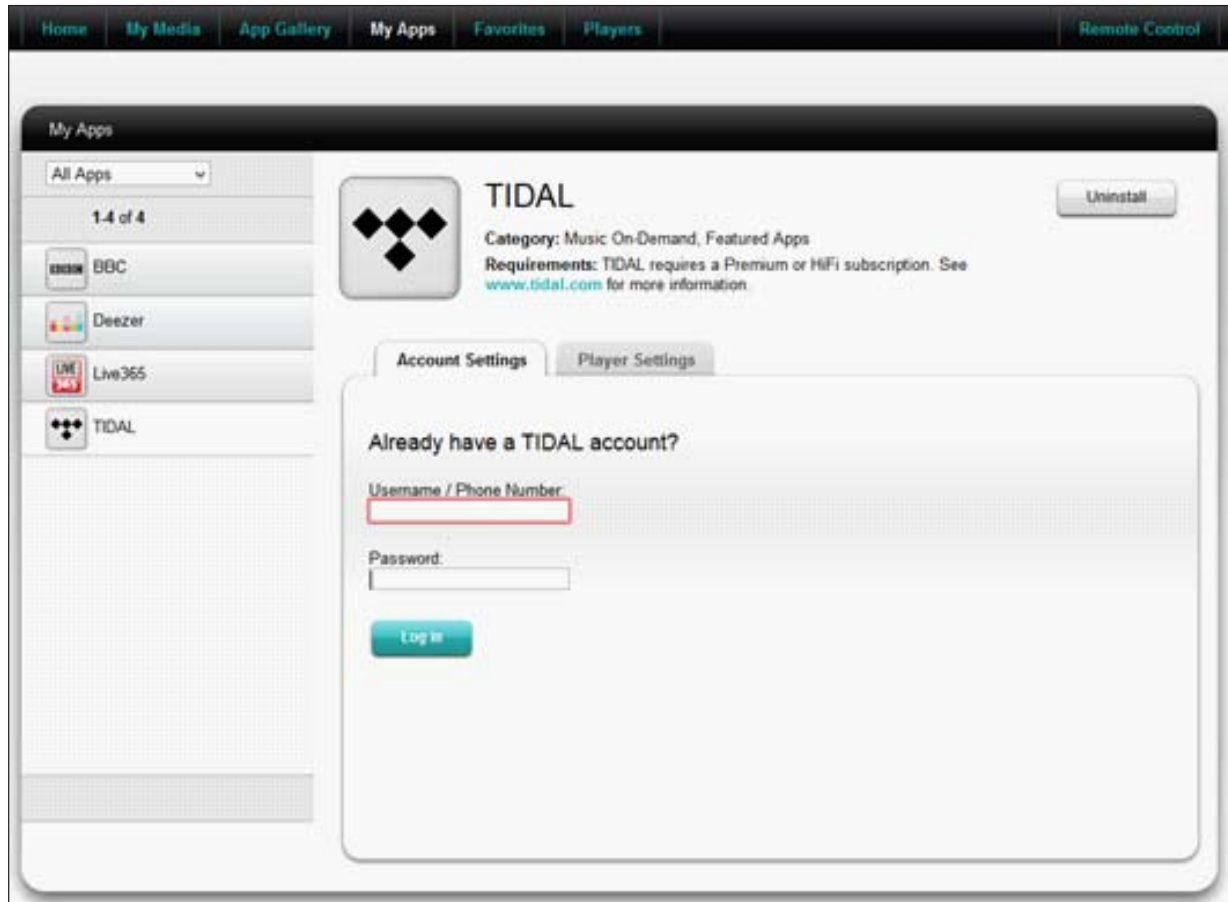
You need to have a 'mysqueezebox.com' login to register for some of the streaming services in Squeezebox. As an example we will go through the steps to enable TIDAL streaming. Go to 'Squeezebox Server / Settings/Plugins' and check that TIDAL is enabled. If it is not there, look under 'Inactive plugins' or 'Recommended 3rd Party Plugins', tick the 'Enabled' box and then click 'Apply', to enable it.

<input checked="" type="checkbox"/>	Spotify (v2.3.8)	Third party Spotify plugin. Listen to Spotify on your Squeezebox Classic, Boom, Duo, Transporter, Radio or Touch. Requires a Spotify Premium account.	Trade
<input checked="" type="checkbox"/>	TIDAL (v1.2)	TIDAL - High Fidelity Music Streaming	Logitech
<input checked="" type="checkbox"/>	UPnP/DLNA Media Interface (v1.2)	Adds a UPnP/DLNA AV MediaServer and MediaRenderer, enabling access by other devices on the local network.	Andy Greenham

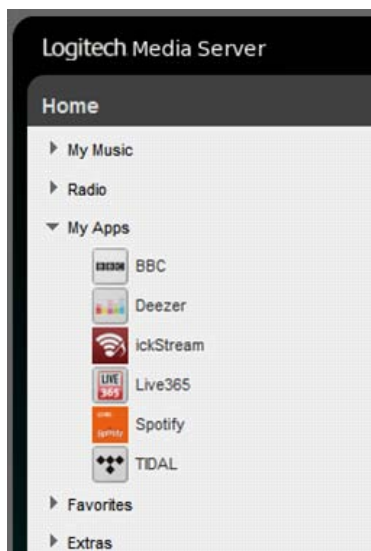
Now go to Squeezebox Server/Settings/mysqueezebox.com, check that you have an account, or create a new one.

Log in to your mysqueezebox.com account, click the 'App Gallery' tab, select TIDAL and click 'Install App'.

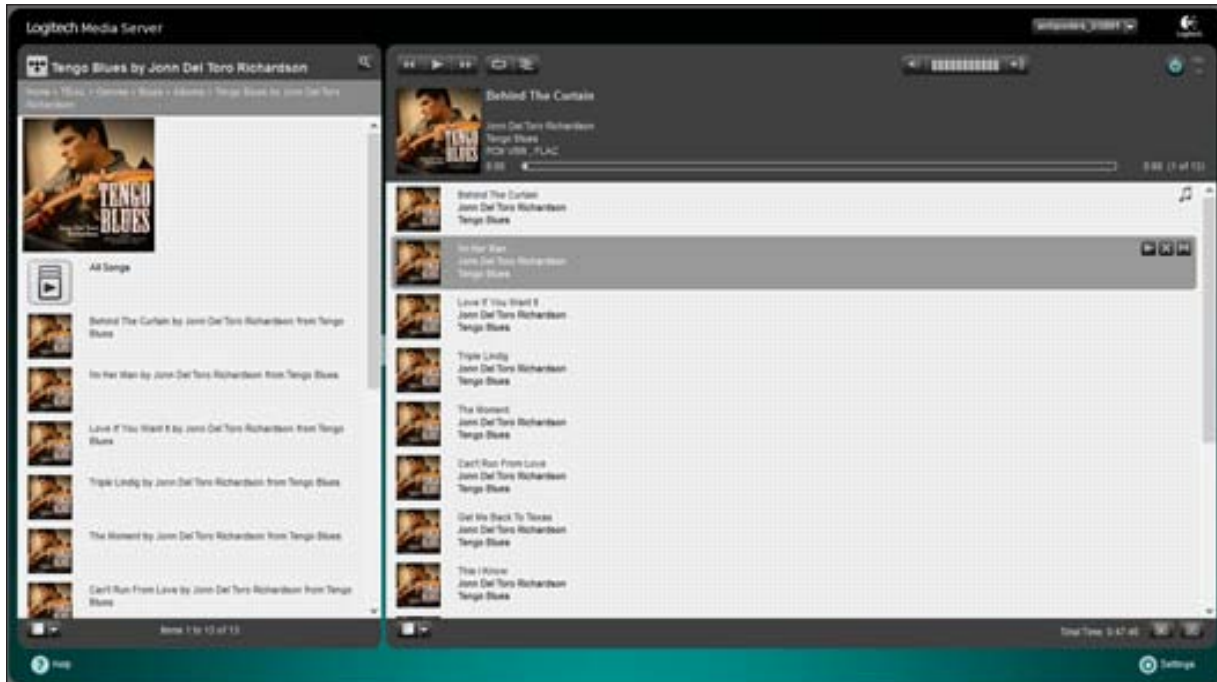
Click 'Configure' and enter your TIDAL credentials (email id and password).



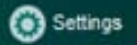
Go to the Squeezebox Server screen, click 'My Apps' and you should find that TIDAL has been added to the list of apps.



Click the TIDAL icon to start using TIDAL.

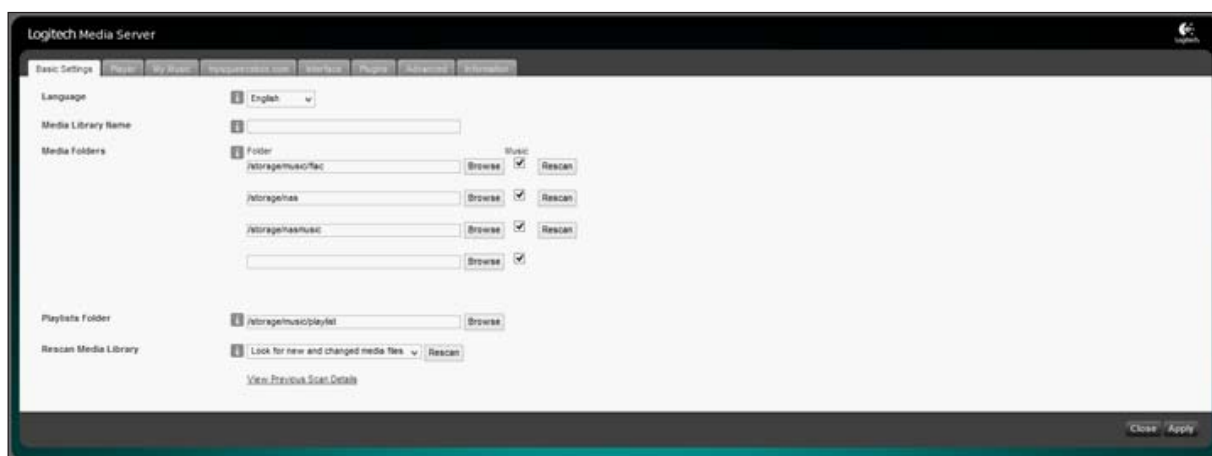


SQUEEZEBOX SETTINGS

At the bottom right hand side of the Squeezebox Server control screen is a  icon. Click on this to make various settings for Squeezelite and Squeezebox Server. When you click this icon a new window will open in your browser. Most of the settings have already been set to the commonly used options. However you may wish to make changes as you become familiar with Logitech Media Server and its options.

You click the different tabs to access various settings. We will only cover library scanning in this guide. The range of options available is too large to cover in this document.

Basic Settings



This window allows you to set the folders in your Antipodes to be included in the Squeezebox library. And it allows you to force Squeezebox to scan for new additions. CDs ripped will be automatically added to the library, but files copied to the Antipodes require a scan before they are included in the Squeezebox library. Scanning options appear in the drop-down box at the bottom of the screen shown above.

5.3 Setup Control Of MPD

MPD is included in the Antipodes software suite mainly as a DLNA renderer application in case you are wanting to use your Antipodes to play from a DLNA server on your network. This functionality is described in the MinimServer and BubbleUPnP Server sections of this guide (Section 7).

However, MPD can also be used as a complete playback solution because it can also play from a folder of music files. This does not offer a lot of features, which means it only requires you to download a client app and start playing music, but

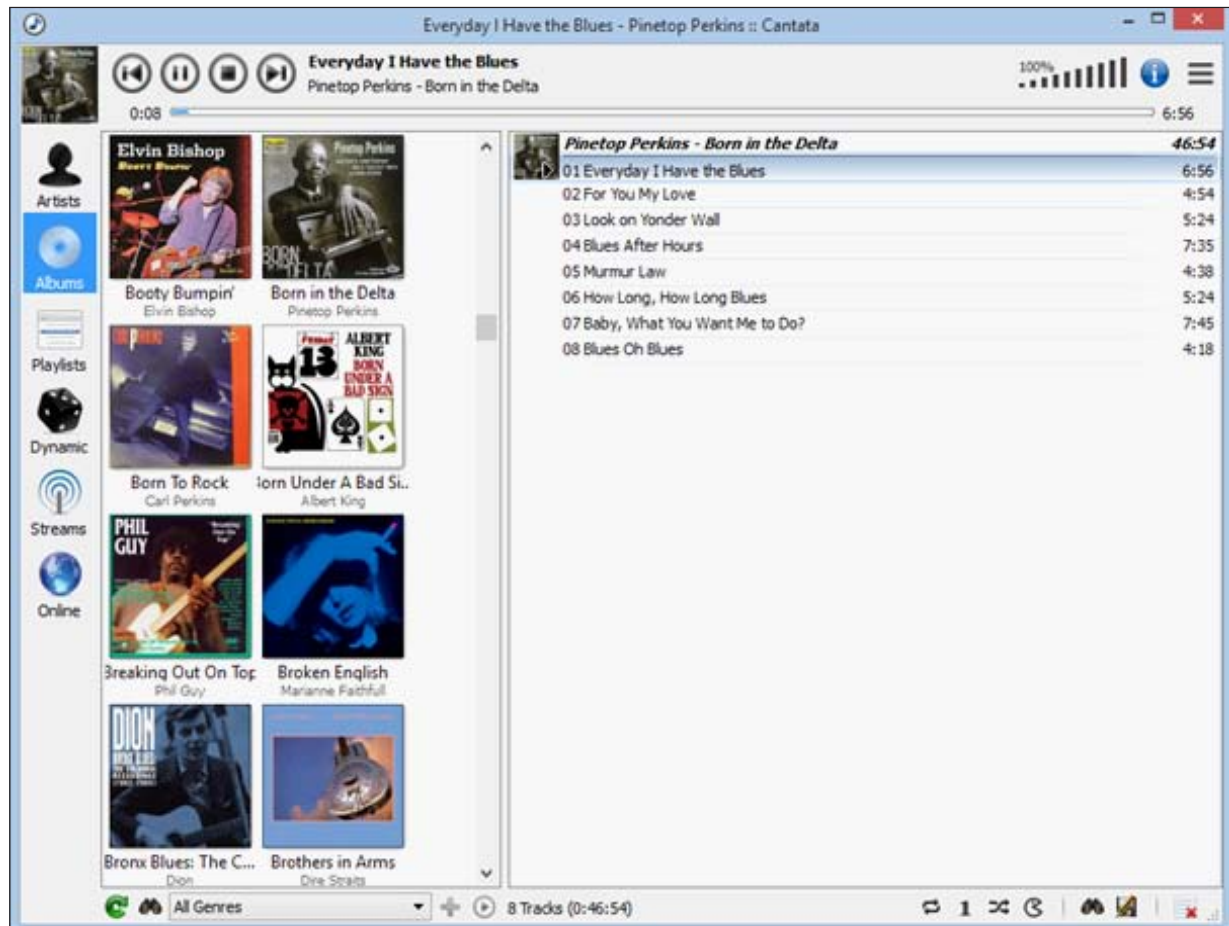
it does offer one very important feature - excellent sound quality.

Unlike Squeezebox, there are no server app features to manage. You just download and use a client app to play music. Like Squeezebox, MPD is free to use,

DESKTOP/LAPTOP

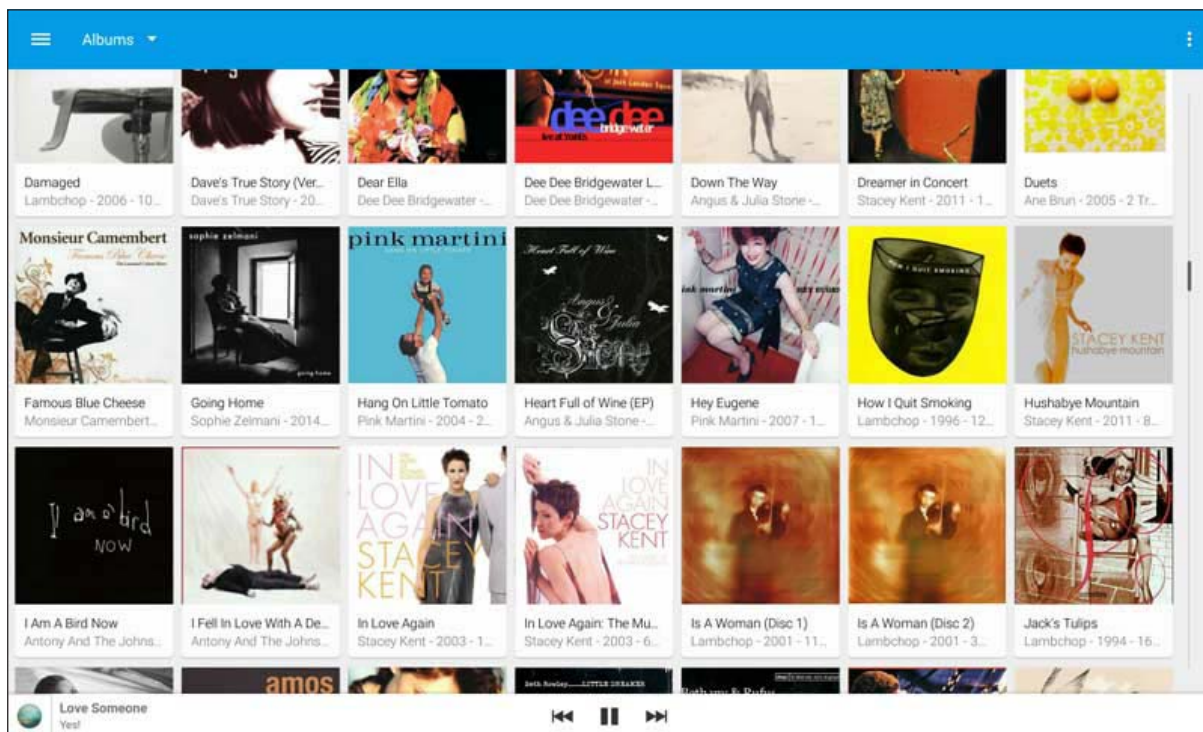
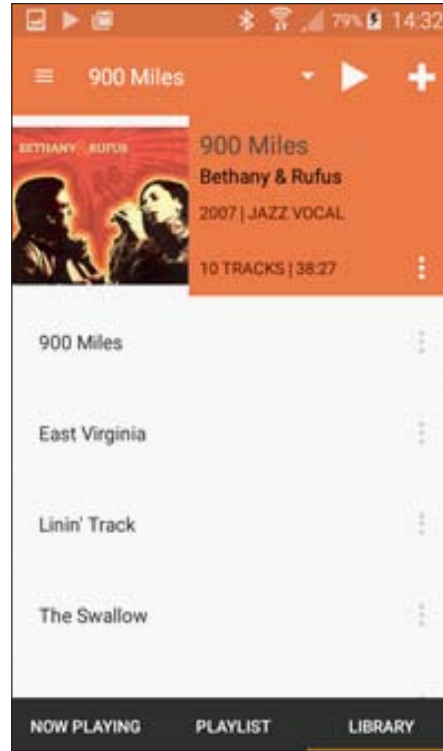
The best remote client for MPD on desktop or laptop is Cantata. It can be downloaded free for Windows devices or Macs from:

http://www.easympd.com/en/tips/0045_client.php



Tablet/Smartphone Apps to run MPD incur a small fee, and are downloaded from the relevant App Store for your tablet/smartphone.

Just search on MPD. We recommend MPDroid on Android and mPad on iPads. If all you want to do is play your music files, MPD is an excellent choice.



6 Add Music To The Server Library

INTRODUCTION

There are four ways you can add music files to the library of a server application running on your Antipodes.

The first three ways involve adding files to the internal storage of your Antipodes, by:

1. Ripping CDs to the Antipodes
2. Copying files to the Antipodes
3. Downloading music over the internet to the Antipodes

The fourth way is:

4. Adding music files to the library by mounting external storage (eg. on a NAS, USB, etc)

In general, we recommend that music files be added underneath this folder on your Antipodes.

/storage/music/flac

This location is automatically added into the library of every server application on your Antipodes.

You can create other folders alongside the 'flac' folder if you wish, but it means you need to tell each server application to add these folders to the library.

It is therefore simpler if you add folders under the 'flac' folder.

Music files do not need to be flac files. They can be in any format.

Roon Server

Note that if you are using Roon, then Roon Server offers a way to add external shared directories, such as on a NAS, to the Roon library.

If using Roon we recommend you use the method in Roon Server settings rather than the method described in Section 6.4 of this guide.

6.1 Import Music From Your CDs

The CD Import application automatically rips CDs, retrieving artwork and metadata tags. Just insert the CD (label up) into the Antipodes, and wait until the CD ejects.

You can also specify whether music is ripped to

compressed FLAC (to save space), or uncompressed FLAC (to optimise playback sound quality). Click on 'Settings' and then click the CD Import icon. At the screen below, select the FLAC compression setting and then 'Save Changes'.



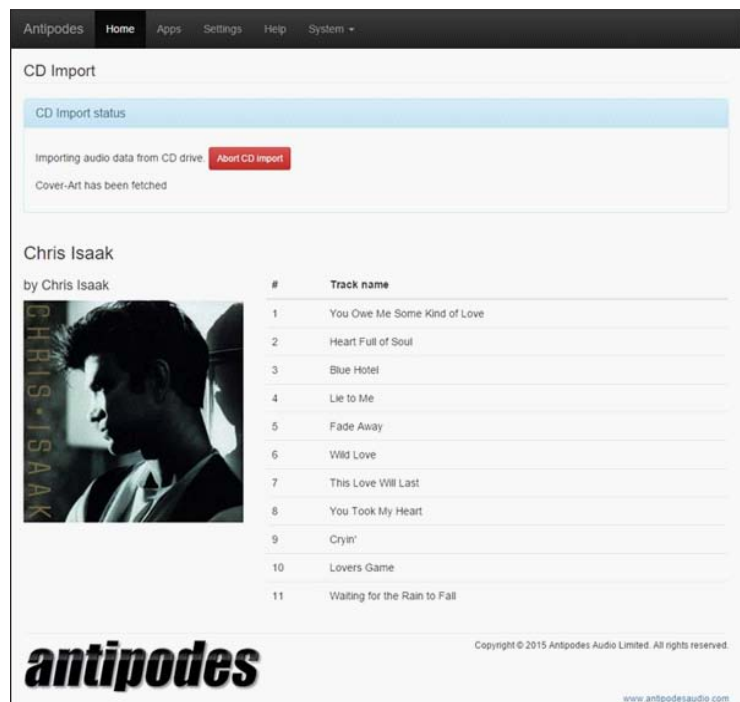
To observe the ripping progress, click on 'Apps', then on the 'CD Import' icon.

If you wish to abort the ripping process click on 'Abort CD Import'.

The ripping is completed in paranoid mode. This means each segment is read twice. If the rips are not identical then the ripping speed is reduced until two identical rips are achieved.

This takes at least twice as long as a normal ripping process but will guarantee you the best possible rip. It is worth the time taken to do it correctly.

Not all Antipodes music servers have integrated rippers, but you can add an Antipodes Platform to add auto-ripping. You can also add your own USB CD optical drive to use the CD Import application, simply by attaching it to the Storage USB port.



6.2 Copy Music To The Server

To copy files to or from your Antipodes, or delete files on your Antipodes, open File Explorer (Windows) or Finder (Mac).

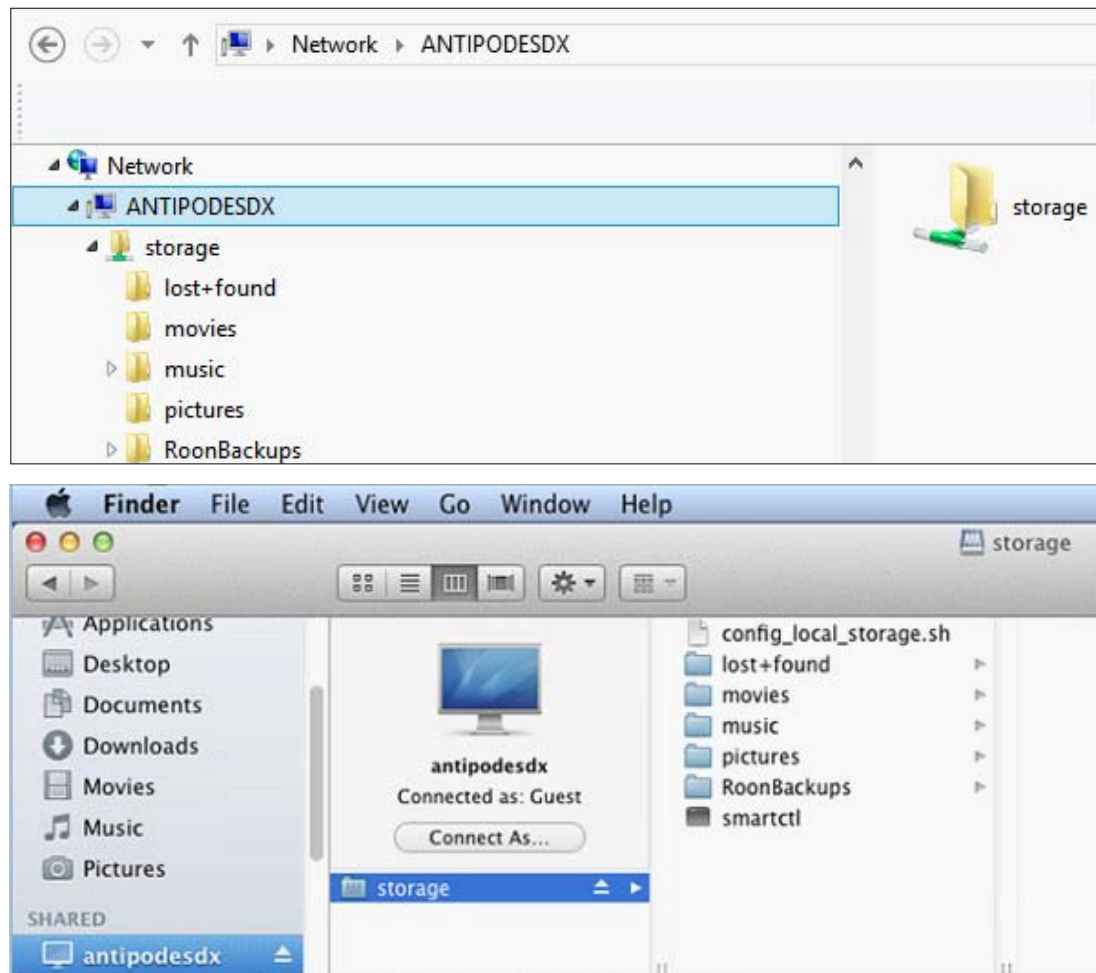
Antipodes will usually show in the left pane under 'Network' (Windows) or 'Shared' (Mac). You can now copy and delete files in the same way as if they were located on your computer.

If 'antipodes' does not show in File Explorer then there may be a network problem. Enter the address of your Antipodes in the address bar of File Explorer - eg. \\antipodes\storage, or

\\192.168.1.214\storage

(use the IP address found by browsing to myantipodes.com).

Similarly if Antipodes does not show under 'Shared' in Mac Finder, click Finder menu item Go, and then sub-menu item Connect To Server. In the dialogue box that appears, enter address smb://antipodes/, or smb://192.168.1.214 (but use your actual IP address, this is just an example) and click Connect. If you are asked for a username, click on the Guest option. This will open Antipodes in Finder.



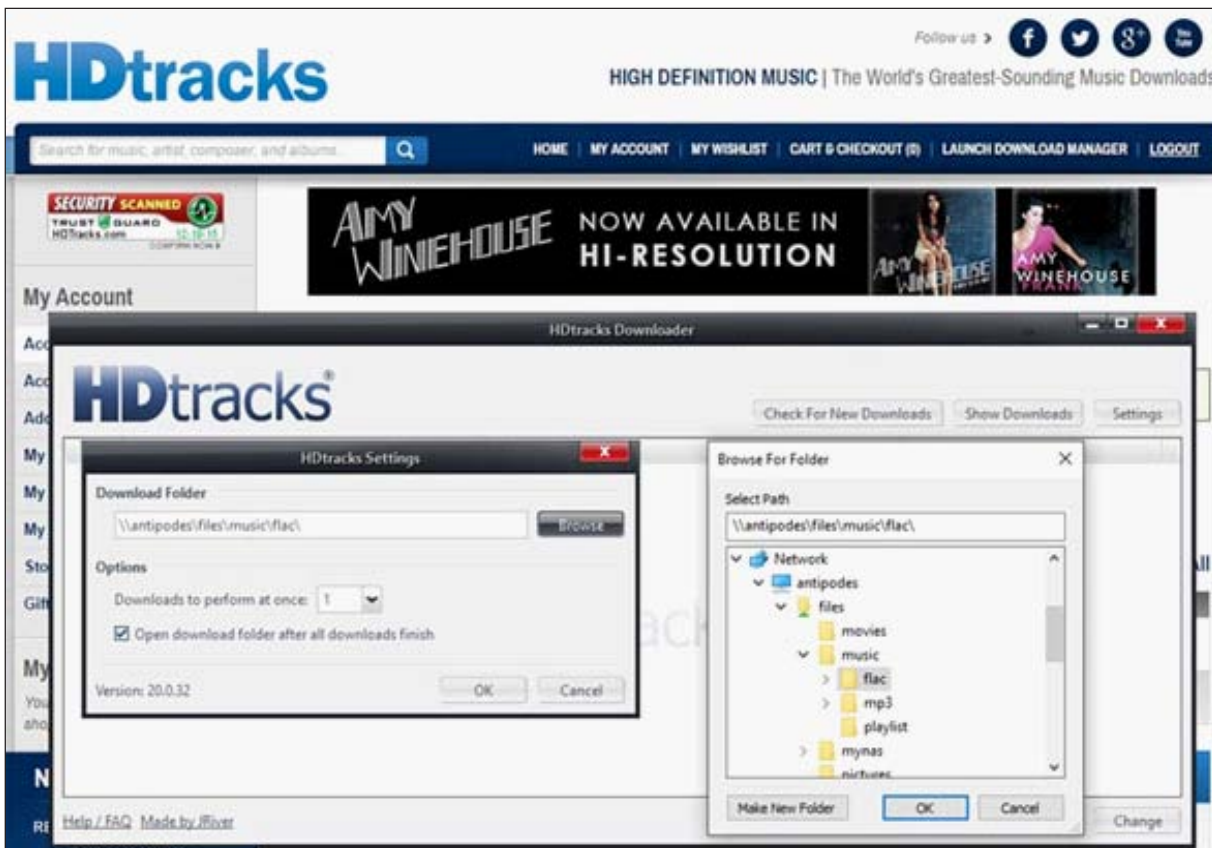
6.3 Download Music To The Server

In this example we have used the HDTracks downloading application. When you start a download, click on the HDTracks 'Settings' button.

You can either type in the address '\\antipodes\

storage\music\flac', or click on the 'Browse' button to locate the download location on the Antipodes.

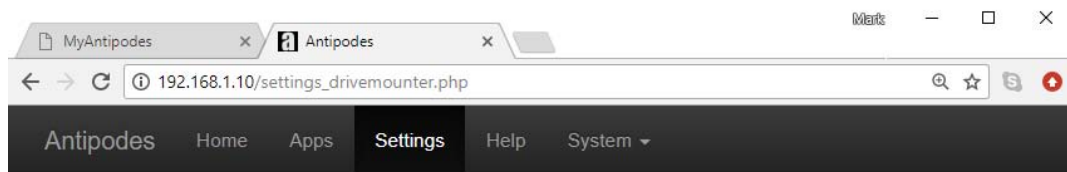
Once you have set this, the HDTracks application will remember it for future downloads.



6.4 Mount External Storage

The Drive Mounter app lets you 'mount' an external USB drive or a folder on your home network that is on PC or NAS and play music tracks stored on them. To be able to play music from a USB drive:

1. Connect the drive to a spare USB port on the back of the Antipodes
2. At the Antipodes GUI, select the 'Settings' menu
3. In 'Settings', click on the 'Drive Mounter' icon.



External Drive Mounter - Mount a locally attached USB drive

USB SMB

Drive device name

Select the device name of your USB drive.

Mount point

Your USB drive will be mounted on \storage\usbdrive.
This folder is already indexed by local services.

antipodes

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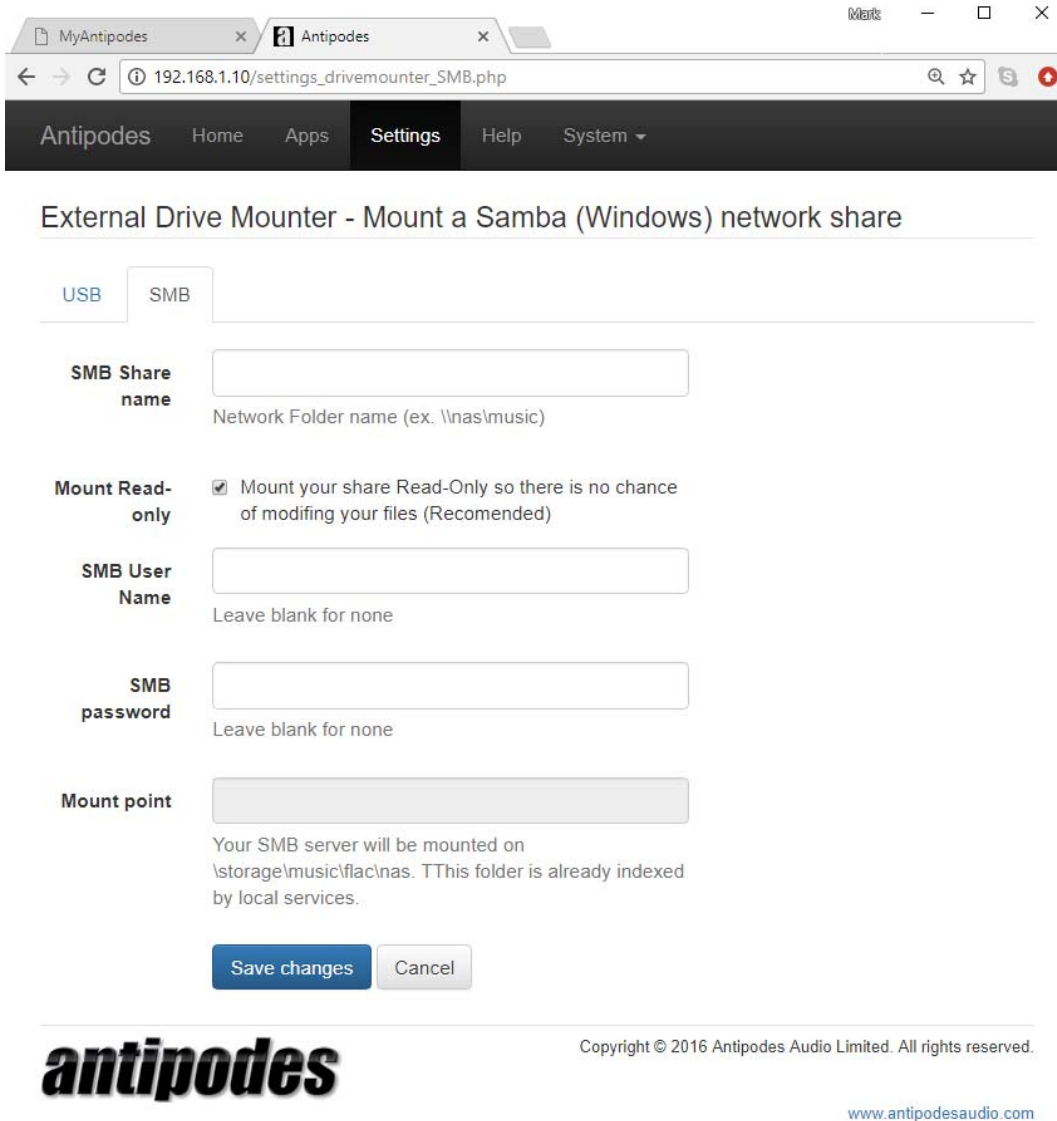
www.antipodesaudio.com

Select the USB drive from the drop down list and click on 'Save Changes'.

The USB drive selected is now mounted on \storage\usbdrive on your Antipodes.

The Drive Mounter app also lets you 'mount' files stored on a NAS or any network share.
To be able to play music from a USB drive:

1. At the Antipodes GUI, select the 'Settings' menu
2. In 'Settings', click on the 'Drive Mounter' icon
3. Click on the 'SMB' tab.



1. Enter the network address of the files
2. Provide User Name & Password for the device the files are on

3. Click on 'Save Changes'.

Your remote files are now mounted on your Antipodes and can be added to your library for playback.

7 Other Playback Solutions

INTRODUCTION

Antipodes Music Servers offer a range of other playback solutions. In general these other playback solutions are not going to provide you with the same sound quality as the Roon, Squeezebox and MPD solutions.

But you may wish to use another playback solution to meet a particular need or to work with a particular device.

For most customers these other playback solutions are a secondary use of their Antipodes. For example, you might use your Antipodes with Roon to play direct to a DAC in your main system. But a secondary use might be to play from the library on your Antipodes through a SONOS system.

In most cases the relevant applications are available for your Antipodes but you need to install them first. Go to Section 8 to learn how to install them.

These include:

DLNA/UPnP/Open Home Solutions. This includes MinimServer and BubbleUPnP Server. These enable the Antipodes to be used as a DLNA server for DLNA renderers that you already have in your network.

Plex Media Server (Video, Music, Images etc). This enables serving video, provided you have a Plex player to stream to.

SONOS Integration. This enables your Antipodes to be a music source for your SONOS system.

HQPlayer NAA. This is a special purpose renderer application, to play from HQPlayer running on a Windows or Mac computer.

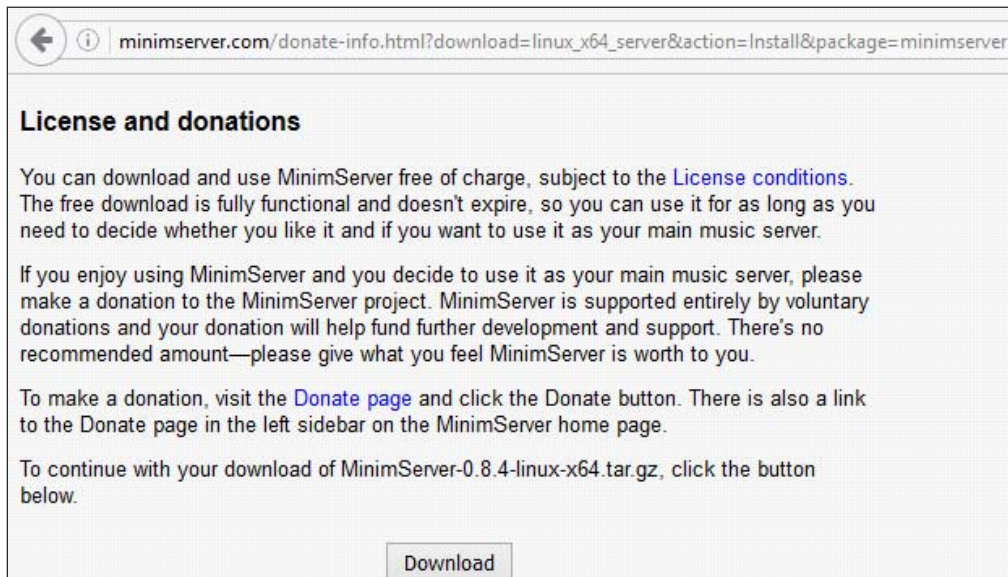
The rest of this section will get you started with each of these but you may need to visit the developer's site to get a detailed guide on how to meet your needs.

7.1 MinimServer

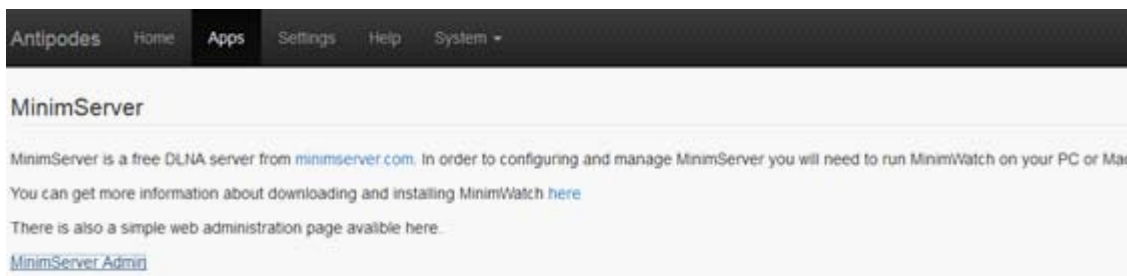
MinimServer is a UPnP/DLNA AV server that enables the music library on an Antipodes server to be accessed by DLNA-capable devices. MinimServer is not installed on Antipodes servers by default. Therefore you need to install it before you can use it.

At the Antipodes GUI, select the 'Apps' menu item, click on the 'Software Manager' icon, and then select the 'Available Apps' tab.

Click on the 'MinimServer' icon and click 'Install' to open the installation process.



Select the 'Apps' menu item in the Antipodes GUI and click on the 'MinimServer' icon.



Click on 'MinimServer Admin' to see the license terms, and accept them if you wish to proceed.

MinimServer Status

This page was last updated at 12:14:19 on 19 Dec 2015

MinimServer 0.8.3 update 74, Copyright (c) 2012-2015 Simon Nash. All rights reserved.

Media server status for MinimServer[antipodes]: Restarting

Your selected content directory is /storage/music

To change this, enter the full path to your new content directory in the field below and click Update.

Content directory:

For more information about using MinimServer, see the [Getting started page](#).

Set the Content Directory to '/storage/music', as shown above, and select 'Update'.

How to Run MinimServer

After MinimServer has been installed on the Antipodes server it will start automatically and run continuously. There are no 'Start' or 'Stop' commands for MinimServer.

How to Use MinimServer

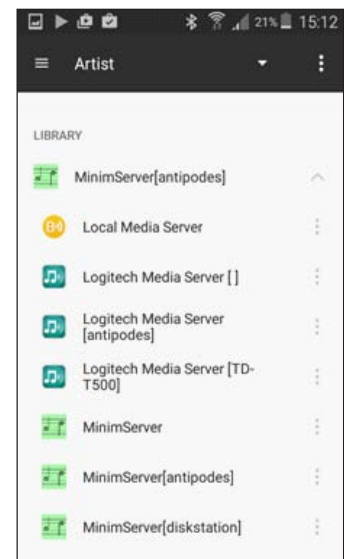
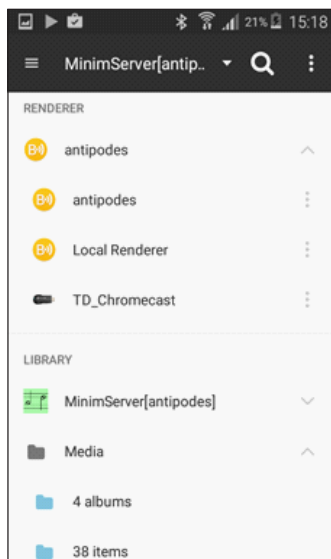
With DLNA solutions, you control the renderer device and it pulls music from DLNA servers. So running MinimServer on your Antipodes makes your

Antipodes server appear as a UPnP/DLNA server on UPnP/DLNA renderer devices on your network. These could be networked music players, computers, televisions, tablets, smartphones etc.

You can also use UPnP/DLNA apps on a tablet or smartphone as a remote control device to manage such playback solutions, selecting the DLNA servers to play from and the DLNA renderers to play to.

There are also two UPnP/DLNA renderer applications on Antipodes music servers; MPD and the UPnP/DLNA Interface plugin that is included in the Squeezebox Server, which is pre-enabled:

UPnP/DLNA Media Interface (v1.0) Adds a UPnP/DLNA AV MediaServer and MediaRenderer, enabling access by other devices on the local network.



7.2 BubbleUPnP

BubbleUPnP Server is a UPnP server application enabling you to:

- Have secure Internet access to your UPnP/DLNA server content, with BubbleUPnP on a tablet and foobar2000 on a Windows device.
- Create OpenHome media renderers from any UPnP AV renderer (provides on-device playlist, and multiple Control Point access to the same renderer)
- Address some common issues with UPnP/DLNA servers (discovery issues, broken data, add some audio DLNA compliance) by creating a

proxy Media Server

- Access your UPnP/DLNA servers across different networks

BubbleUPnP Server is not installed on Antipodes servers by default. Therefore you need to install it before you can use it. Go to Section 8 for a guide to installing and uninstalling apps in the Antipodes GUI.

After installing it, set up BubbleUPnP Server by selecting the 'Apps' menu item in the Antipodes GUI, and then click on the BubbleUPnP icon.

Click 'OK' at the welcome screen.



You will be prompted to supply login details for remote access.



Leave the following screen that displays unchanged.

BubbleUPnP Server

Status Network and Security Media Servers Media Renderers Settings Help

Network:

If you are using a Dynamic DNS service, set your fully qualified public hostname here (example: myhost.no-ip.net).

Public host name:

Credentials:

Login:

Password:

Allow to access the server from the Internet
required by BubbleUPnP for Android and foobar2000 for Internet access

Allow to configure the server from the Internet

Enable media access log file
Log all media stream requests to file (access_log.txt)

Click the 'Status' tab and check that the 'Internet Connectivity Test' has worked successfully, as shown below. Leave the other settings unchanged.

BubbleUPnP Server

Status Network and Security Media Servers Media Renderers Settings Help

Network:

Public IP Address: 199.199.0.254

Public HTTP Port: 58050

Public HTTPS Port: 58051

Public host name: 199.199.0.254.myISPwebsite.com

LAN IP Address: 192.168.1.128

HTTP: Server is reachable from Internet
 HTTPS: Server is reachable from Internet

Status:

Version: 0.9-update11

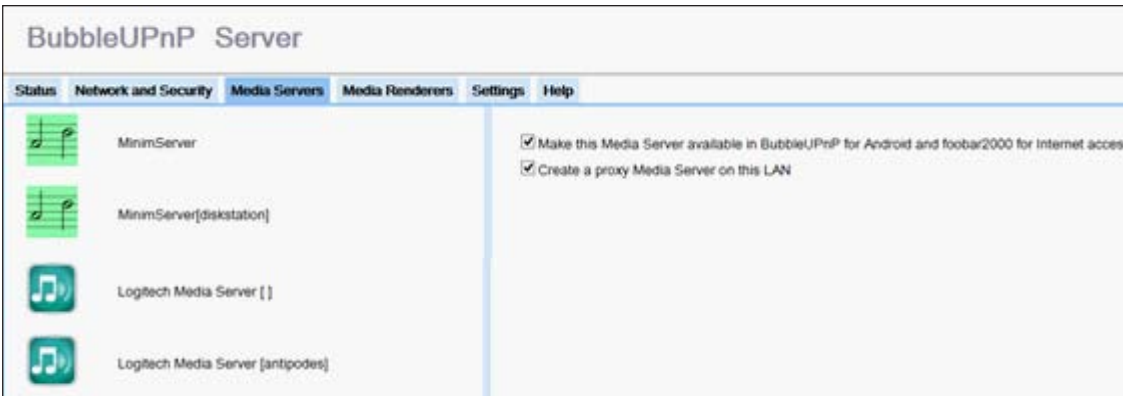
Audio Transcoding supported: yes

Video Transcoding supported: yes

Image Transcoding supported: yes

If the 'Internet Connectivity Test' was unsuccessful, click the 'Restart Server' button at the bottom of the screen.

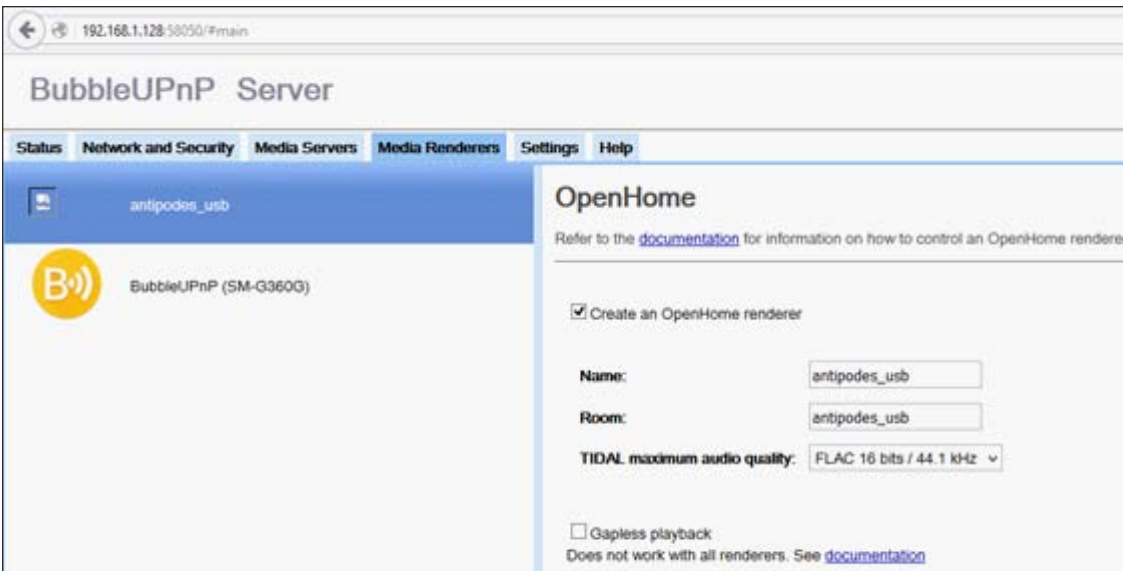
Click the 'Media Servers' tab to display the UPnP/DLNA servers that have been located on your network by BubbleUPnP.



Finally, click the 'Media Renderers' tab. This window shows the DLNA renderers that have been located on the network, in this example 'antipodes_USB', a player on the Antipodes server, and BubbleUnP

SM-G3600 (the local player on a Samsung Galaxy smartphone).

Check the 'Create an OpenHome renderer' box to enable OpenHome capability for the renderer.



How to Run BubbleUPnP Server.

After it has been successfully installed BubbleUPnP Server will be started automatically and then runs continuously. It is automatically started when the Antipodes server is powered on. It can be restarted by pressing the 'Restart Server' button on the 'Status' screen.

BubbleUPnP Server Support

Usage and support information for BubbleUPnP Server is available at

www.bubblesoftapps.com/bubbleupnpserver/.

7.3 Plex Media Server

Plex is a media server application that organises video, music and photos from personal media libraries and streams them to media servers, smart TVs, streaming boxes and mobile devices that have compliant player apps.

Plex can also be setup as a DLNA server, and on the Antipodes you can use a DLNA renderer app such as MPD or Squeezelite as its music player.

You can control Plex on a Windows PC, an Apple Mac or a tablet or smartphone using one of the

DLNA remote controller apps such as BubbleUPnP, UPnPPlay, Foobar 2000 etc.

To use Plex with the Antipodes you must install the optional Plex application. Go to Section 8 for a guide to installing and uninstalling applications in the Antipodes GUI.

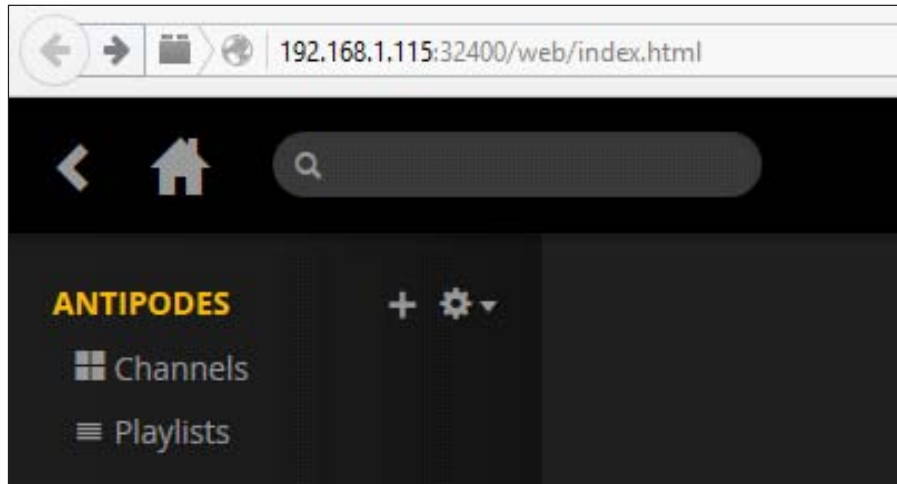
After installing it on your Antipodes, the first step is to use a browser to go to <https://plex.tv/>, click on 'Create Plex Account' and proceed to create your account.

The screenshot shows the Plex website's account creation page. At the top, there is a dark navigation bar with the Plex logo on the left and links for 'Features', 'Downloads', 'Support', and 'Blog' in the center. On the right side of the navigation bar is an orange 'SIGN UP' button. The main content area is white and features a central 'Create Account' form. The form has a title 'Create Account' in orange, followed by the text 'Start enjoying your media everywhere.' Below this are three input fields: 'EMAIL ADDRESS' with an envelope icon, a password field with a key icon and a masked password '*****', and a 'CONFIRM PASSWORD' field with a lock icon. Underneath the form is a small disclaimer: 'By creating an account, you confirm that you have read and accept the [Terms and Conditions](#) and are at least 13 years old.' At the bottom of the form is a large orange 'CREATE ACCOUNT' button. Below the button is a link: 'Already have an account? [Sign in](#)'.

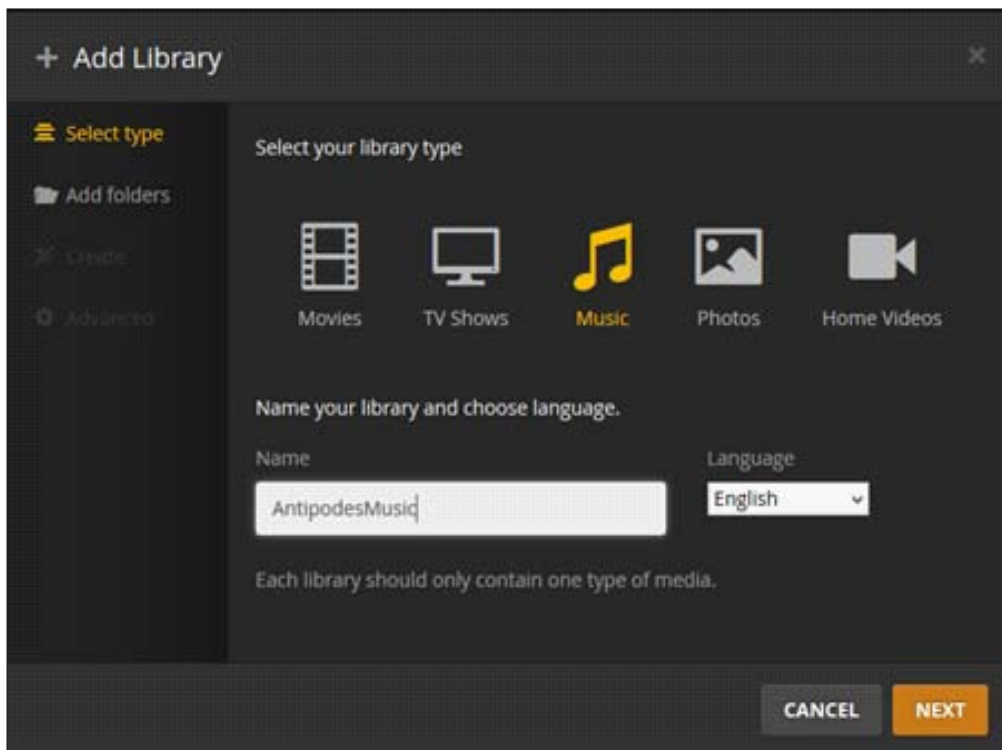
Then, back in the Antipodes GUI, select the 'Apps' menu item, and click on the 'Plex' icon. A new browser window will open where you can review and agree to the Plex Terms of Service. You will then be taken to the Plex interface.

How to Set Up Plex

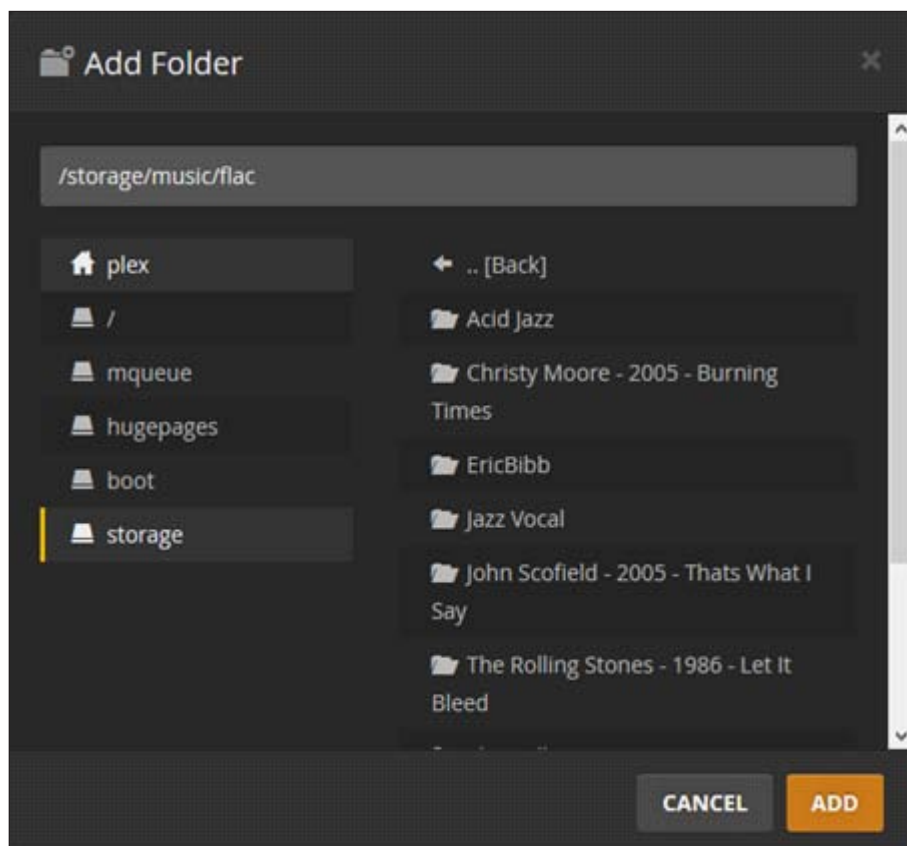
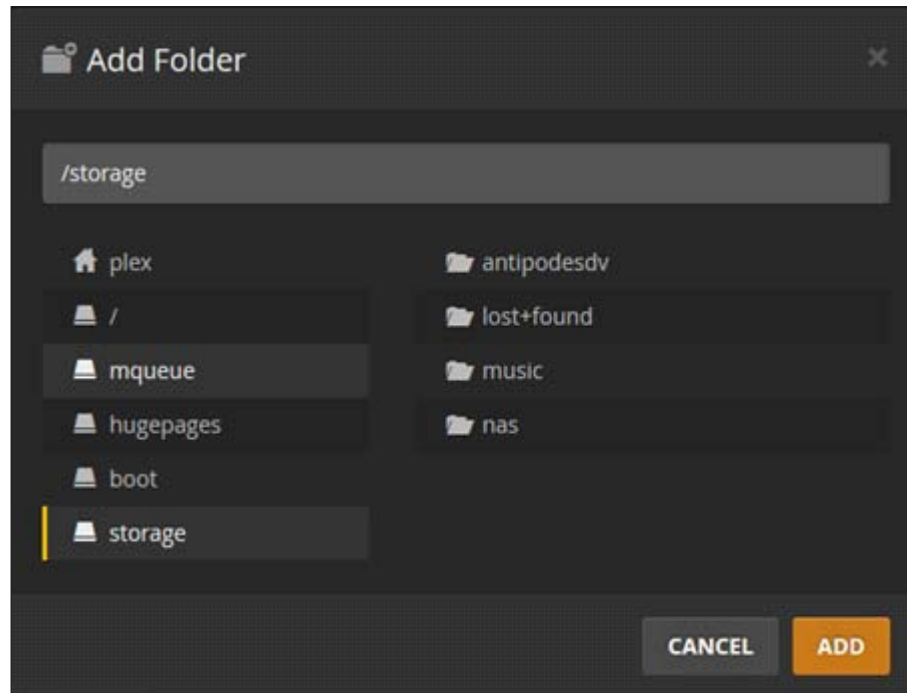
At the top left hand side of the screen click the '+' symbol next to the server name (ANTIPODES):



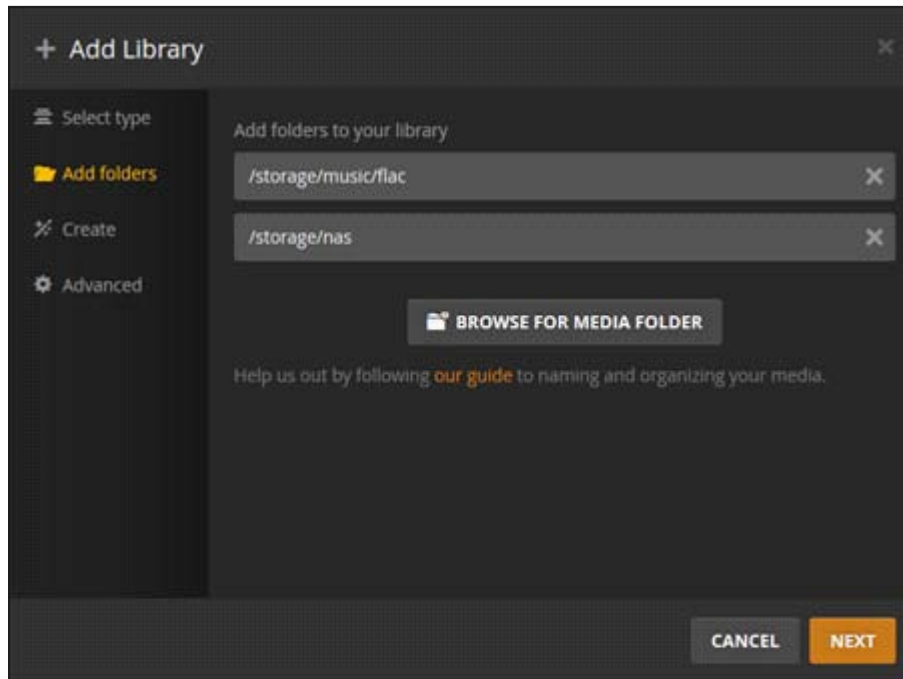
In the 'Add Library' window that appears select 'Music', give your library a name, and then click 'NEXT'.



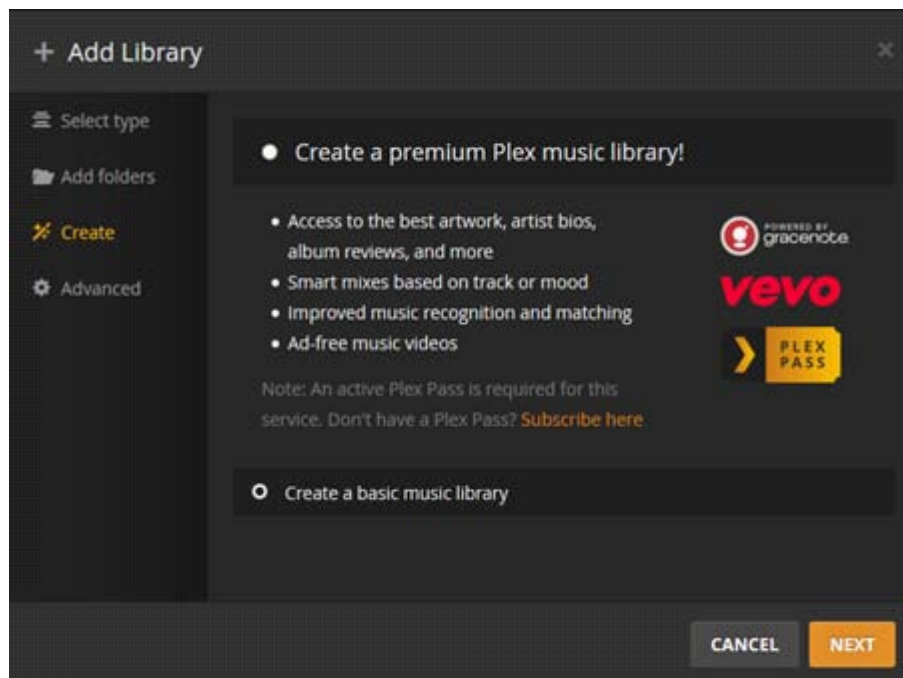
In the following screens you will select the folders to include in your music library. Click the 'storage' entry on the left hand side, then 'music', and finally 'flac'; this points to where album folders are stored on the Antipodes (/storage/music/flac).

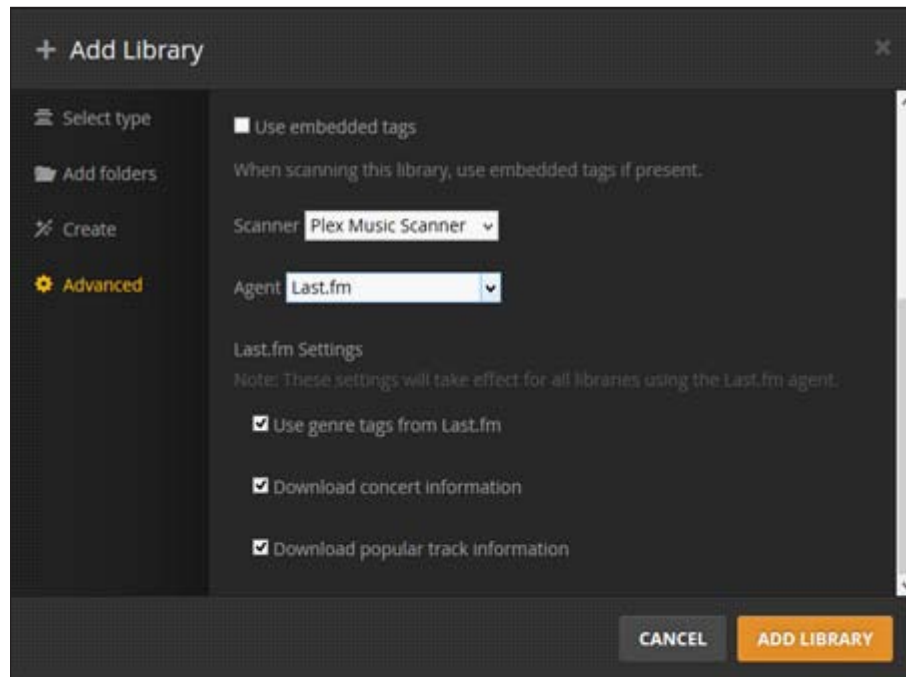


Then click 'ADD' to add the folder to your music library. You can add additional folders to your library now or later on; here '/storage/nas' has also been added.

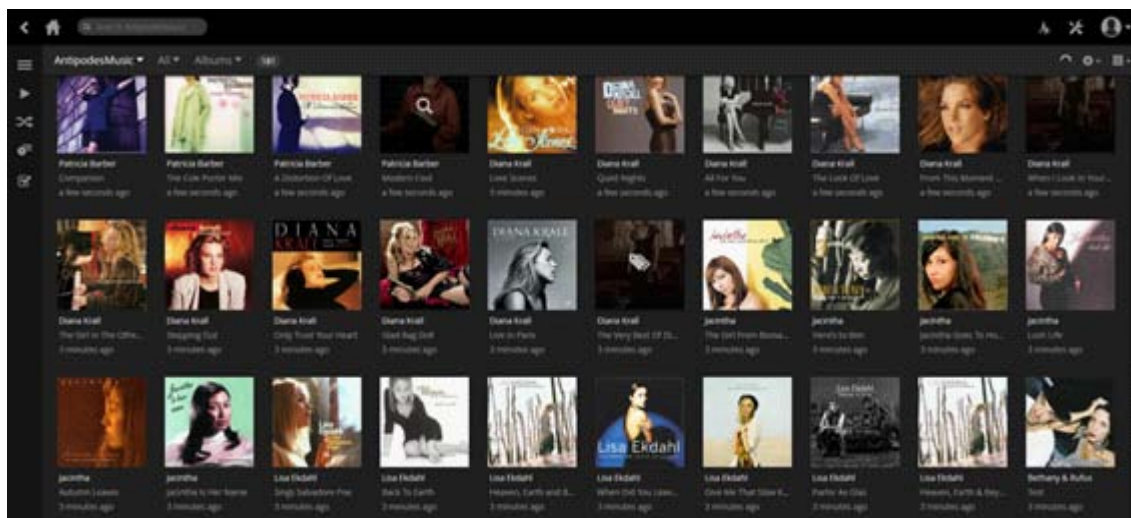


When you have finished adding folders click 'NEXT', select 'Create a basic music library' on the following screen followed by 'NEXT', and then 'ADD LIBRARY' on the last screen.





Plex Media Server will then create the library on your Antipodes.



How to run Plex using a DLNA Remote App

While you can use the Plex Media Server application on the Antipodes to set up your Plex library you cannot use the application to play music through the Antipodes (although you can use it to play music on the Windows PC or Mac on which you are running the application). To play music from your Plex library through the Antipodes you must use a DLNA remote app; several apps are available for Android or for iOS

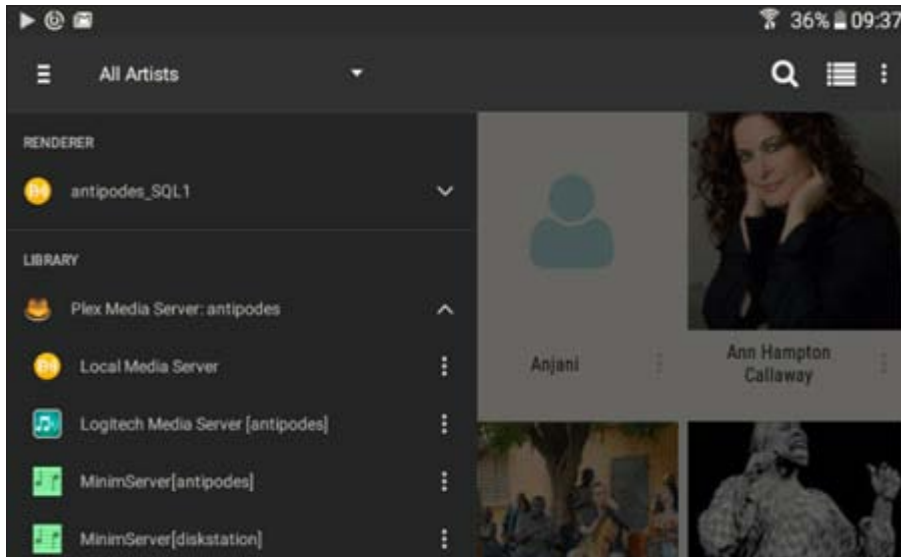
devices. You use the remote app to select a DLNA renderer (player) such as MPD or SqueezeLite on the Antipodes, and a DLNA server, in this case Plex.

The examples shown below use BubbleUPnP on an Android tablet.

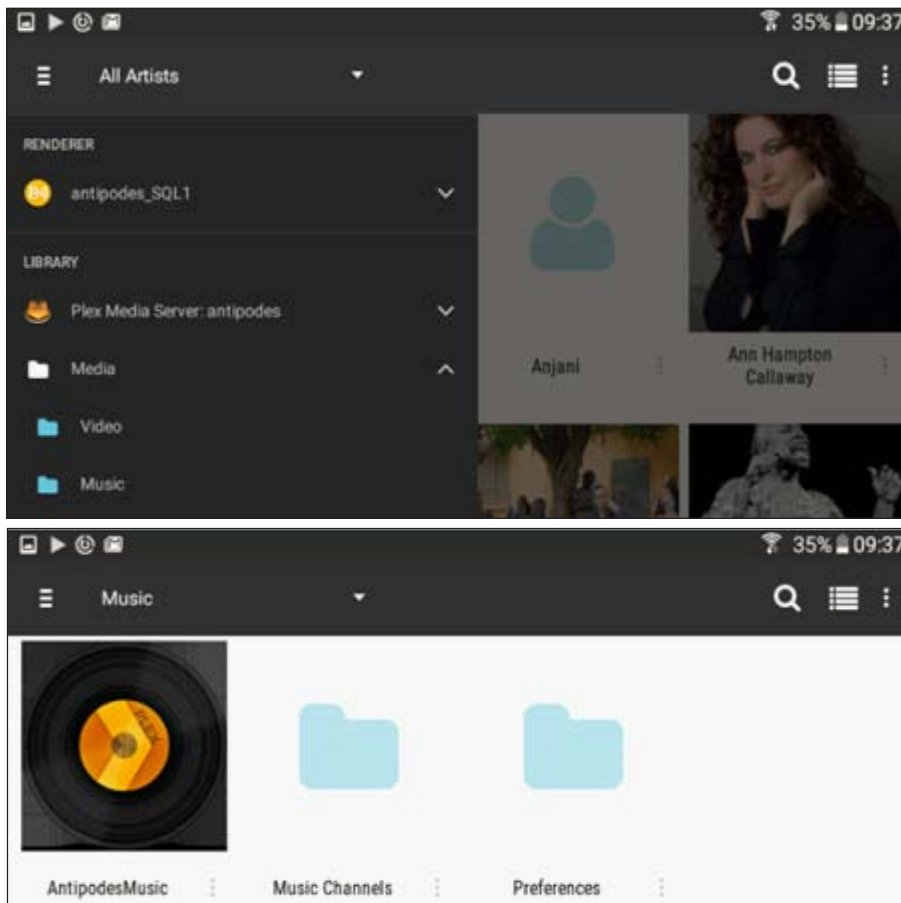
Using BubbleUPnP with Plex

BubbleUPnP for Android can be downloaded from Google Play.

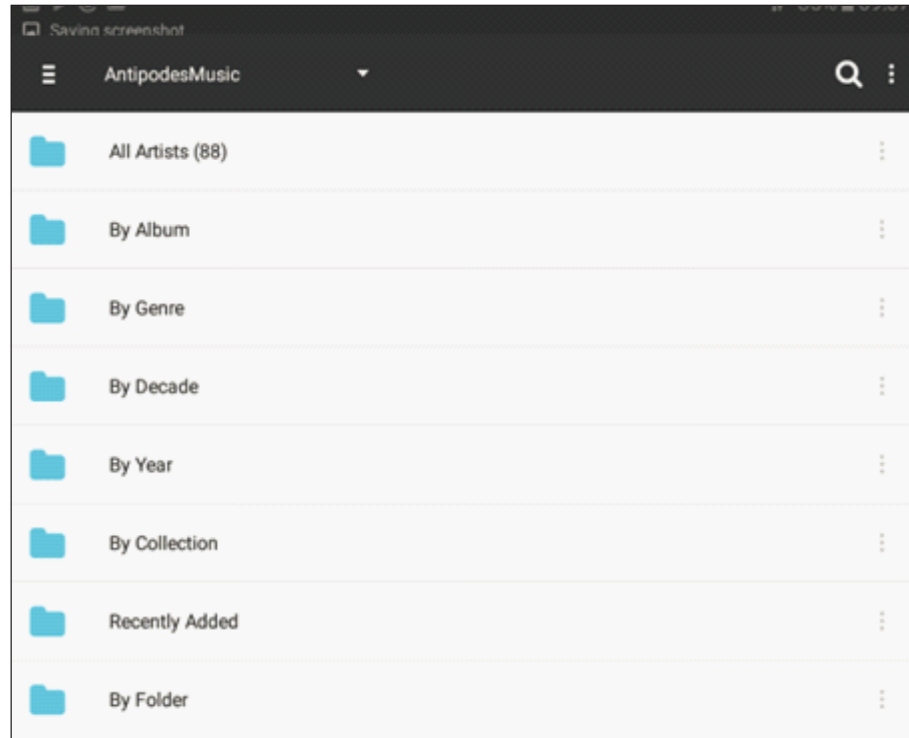
When you open the app on your tablet or smartphone the screen display shows the DLNA Renderers (at the top) and DLNA Servers that have been detected by BubbleUnP. In this example the renderer 'antipodes_SQL1' (Squeezeelite on the Antipodes) is selected and there is a choice of several libraries (servers).



When 'Plex Media Server: antipodes' is selected you select 'Media/Music', and then 'AntipodesMusic' (the name given earlier to the library during the setup stage)



You can then drill down through your Plex library using a variety of filters to build and play your playlists.



Support

Plex website: <https://plex.tv/>

Plex apps for Android, iOS, Windows: <https://plex.tv/downloads>

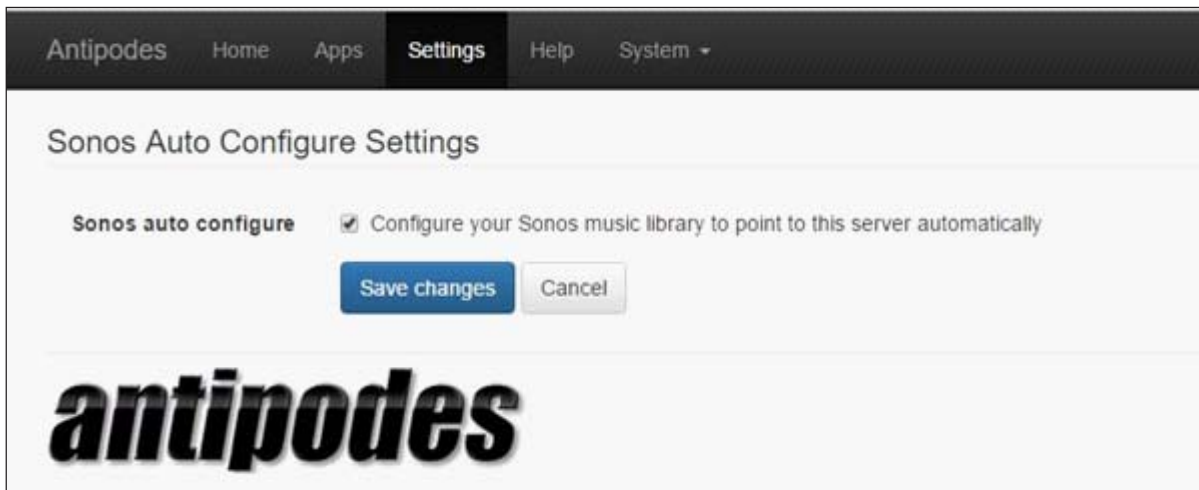
7.4 SONOS Integration

Install and setup this application and your Antipodes Music Server will appear within your SONOS application as a music source.

This means you can use your Antipodes music server to rip and store music, play to a high quality DAC in your stereo system, and have the same music available for playback using SONOS hardware, throughout your home.

SONOS Integration is not installed on your Antipodes server by default, so you will need to install it at the Antipodes GUI first. Go to Section 8 for a guide to installing and uninstalling apps in the Antipodes GUI.

Then select the 'Settings' menu item at the Antipodes GUI, click on the 'SONOS Integration' icon, tick the option to integrate with your SONOS system and click on the 'Save Changes' button.



7.5 HQPlayer NAA

Signalyst HQPlayer is an upsampling multichannel audio player for Windows, Linux and OS X. A light version can be optionally installed on the Antipodes server and then controlled by a copy of HQPlayer Desktop running on a PC or Mac. HQPlayer provides high levels of digital manipulation on the files, including room correction, digital volume, different digital filters, up-sampling, trans-coding etc.

HQPlayer NAA is not installed on your Antipodes server by default, so you will need to install it at the Antipodes GUI first. Go to Section 8 for a guide to

installing and uninstalling apps in the Antipodes GUI.

HQPlayer NAA is only a renderer application so you need to also install the HQPlayer main application on a desktop computer. Go to:

<http://www.signalyst.com/consumer.html>

and download and install the appropriate version of HQPlayer Desktop. HQPlayer Desktop requires a licence to be purchased. You can use the product for 30 days at no charge for evaluation.

HQPlayer Desktop: 3.11.0

[Download for Windows](#) trial / update.

[Download 64-bit for Ubuntu 14.04](#) trial / update.
Kernel and libasound2 packages for native DSD support [here](#).

[Download for Mac OS X](#) trial / update.

How to Run HQPlayer

To get the best performance from HQPlayer we recommend that your Antipodes server and PC or Mac are both Ethernet cable-connected to your network router. This however is not mandatory and you may find it works satisfactorily with wireless PC connection.

Once HQPlayer NAA is installed on your Antipodes there is no more to do in the Antipodes GUI than select HQPlayer NAA at the 'Audio App Switcher' (see section 4.4 of this guide).

But you need to complete the necessary setup in the HQPlayer desktop application - see the next pages for a guide to doing this.

HQPlayer NAA started.

Audio App Switcher

[SqueezeLite](#)

[HQPlayer NAA Active](#)

This part of the guide refers to a third-party application that is not included with your Antipodes server, but we include it as a way to get started quickly with this application. For detailed and up to date information, you should visit:

Website: <http://www.signalyst.com/>

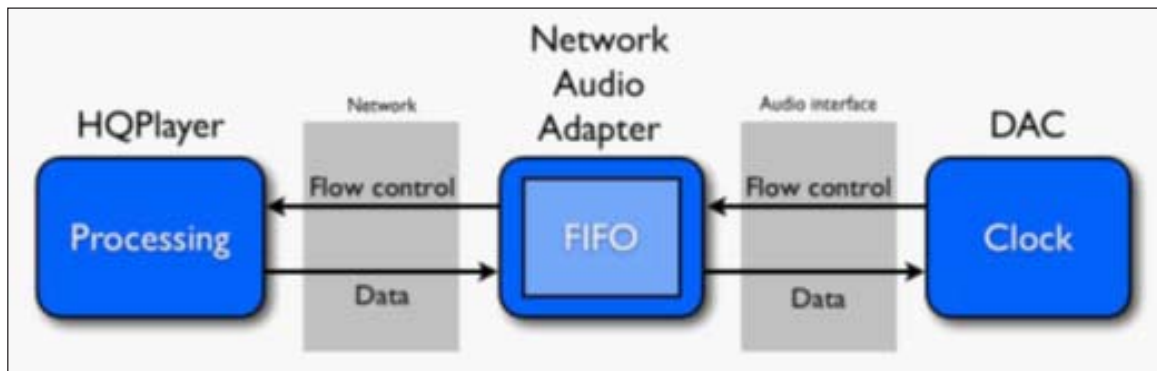
The HQPlayer Desktop User Guide can be found at: i-cat.biz/pdf/HQPlayer-manual.pdf

There is a very active HQPlayer community forum at:

<http://www.computeraudiophile.com/f11-software/hq-player-20293/>.

Run HQPlayer on Windows or Mac

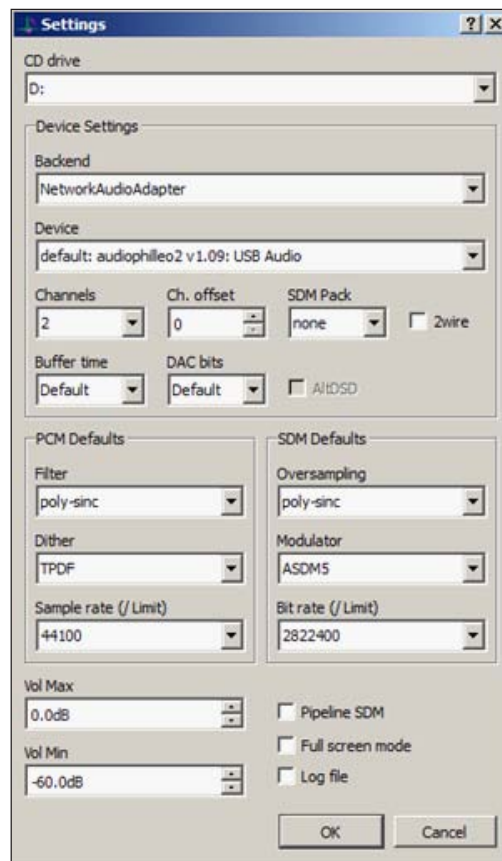
The audio processing is performed at the HQPlayer Desktop application side, and then streamed asynchronously over the network for reproduction on your Antipodes. In the diagram below the Antipodes is the Network Audio Adaptor.



How To Set Up HQPlayer on Windows or Mac

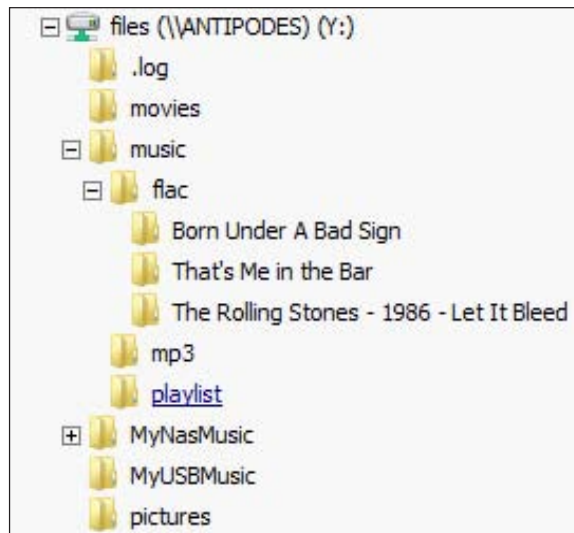
Start HQPlayer NAA on your Antipodes server and then start the HQPlayer Desktop application on your PC or Mac. Click 'File/Settings'.

Under 'Backend' select 'NetworkAudioAdapter'. Under 'Device' select the entry that matches the name of you DAC or USB adapter ('audiophileo2' in the above example). Then click 'OK'.

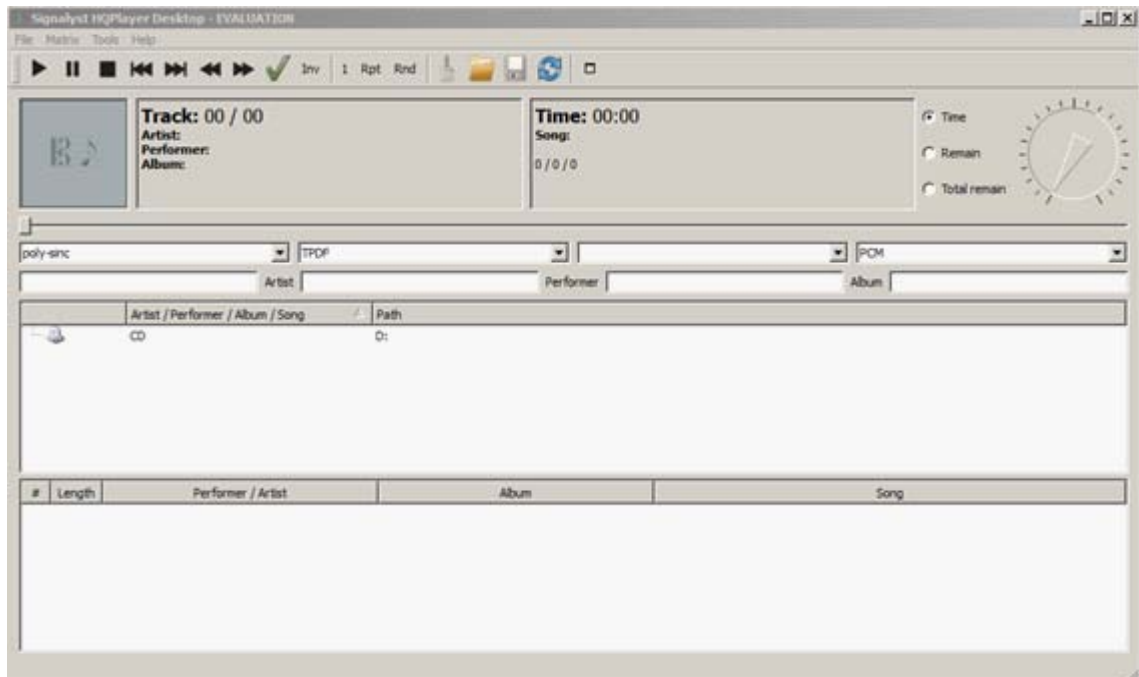


How To Use HQPlayer on Windows or Mac

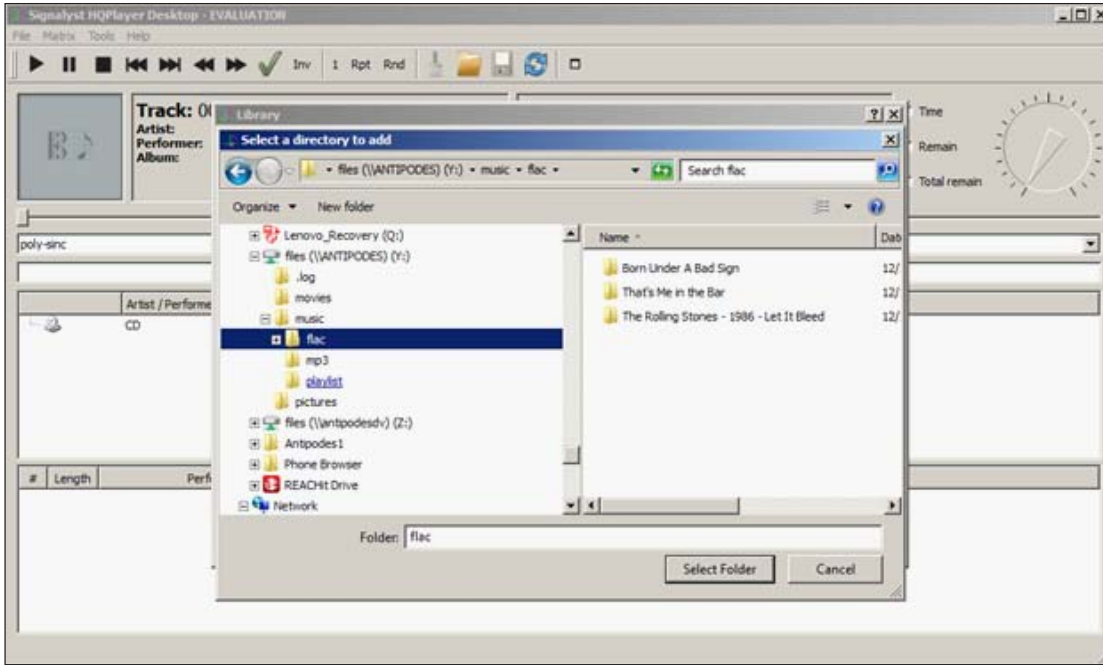
The music library that HQPlayer Desktop works with is a Windows or OS X folder. It is therefore necessary to map your Antipodes music library as a shared network drive, as shown, in order to play music files using HQPlayer.



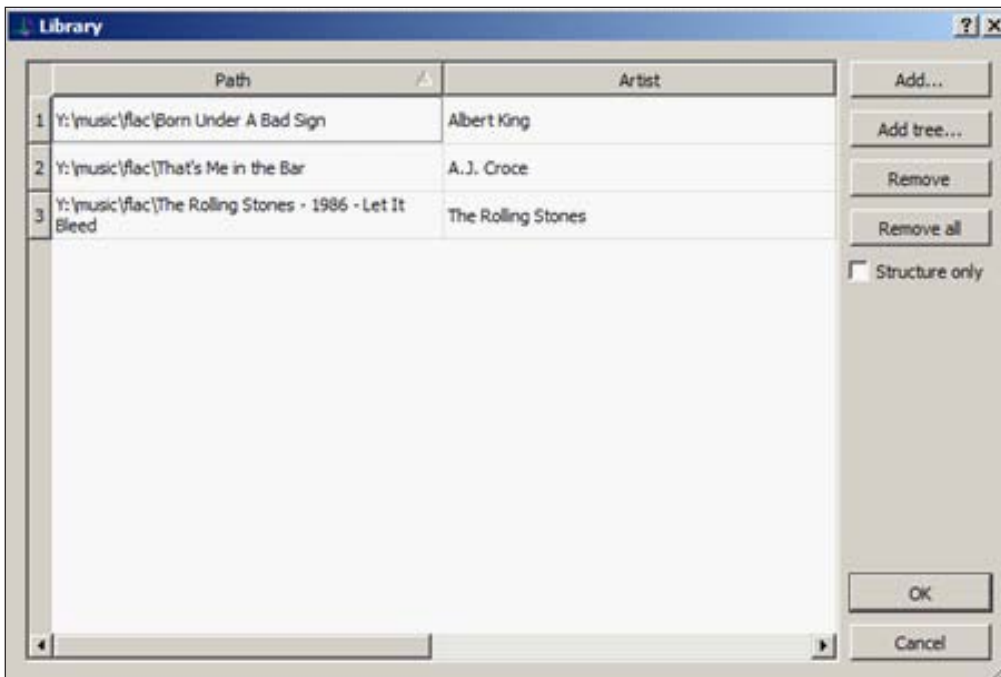
When you start HQPlayer Desktop for the first time you will be presented with a blank screen.



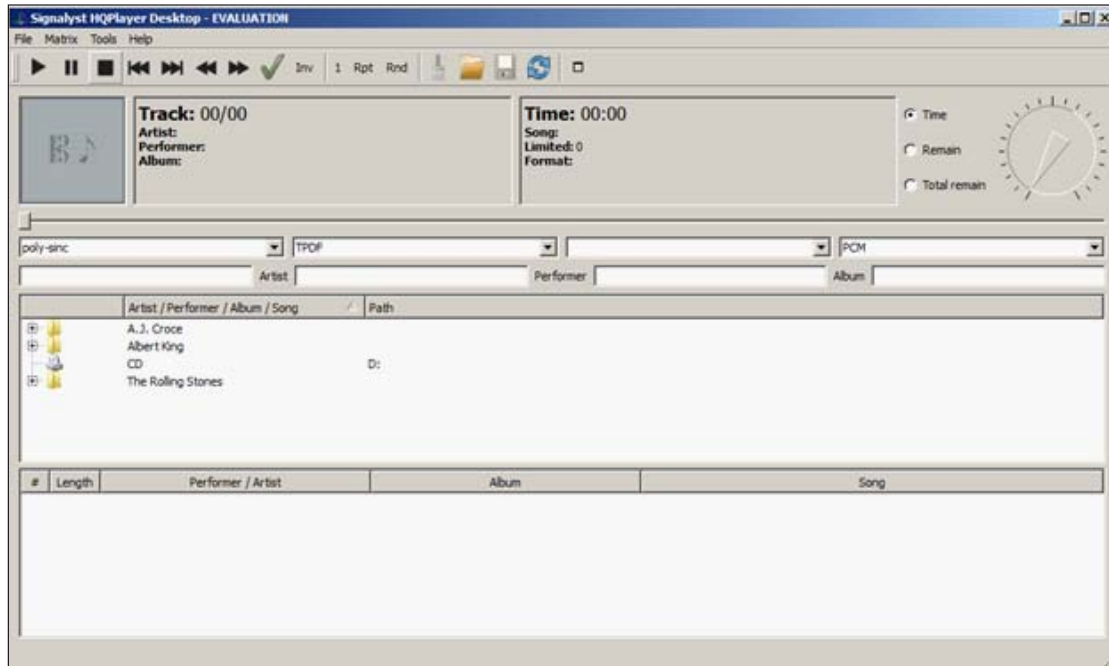
To start adding music files to HQPlayer click 'File/Library' and then 'Add' (for individual files) or 'Add Tree' (to add a folder).



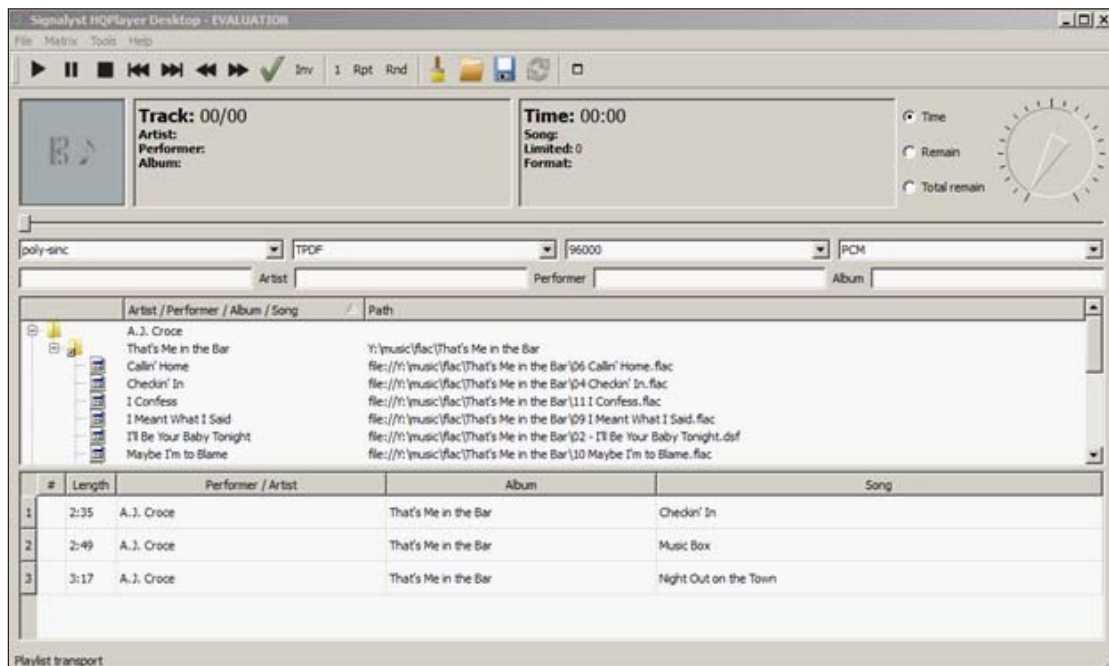
Select a folder, such as the 'flac' folder shown above, and then click 'OK'.




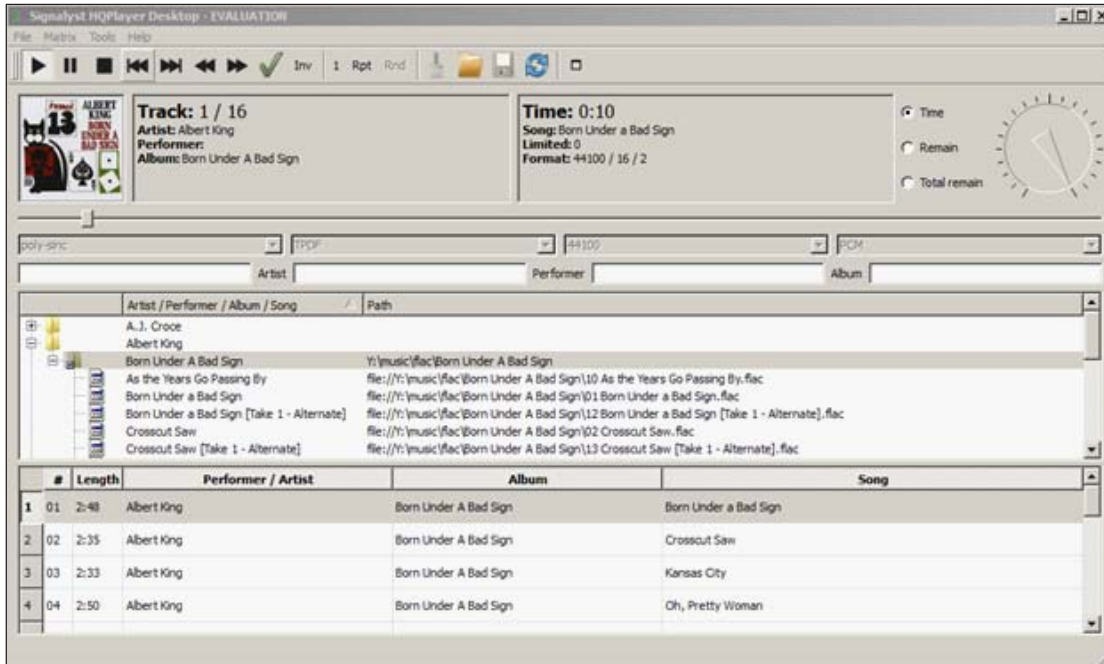
The contents of the selected folder, i.e. album folders, will be displayed in the middle (library) pane.




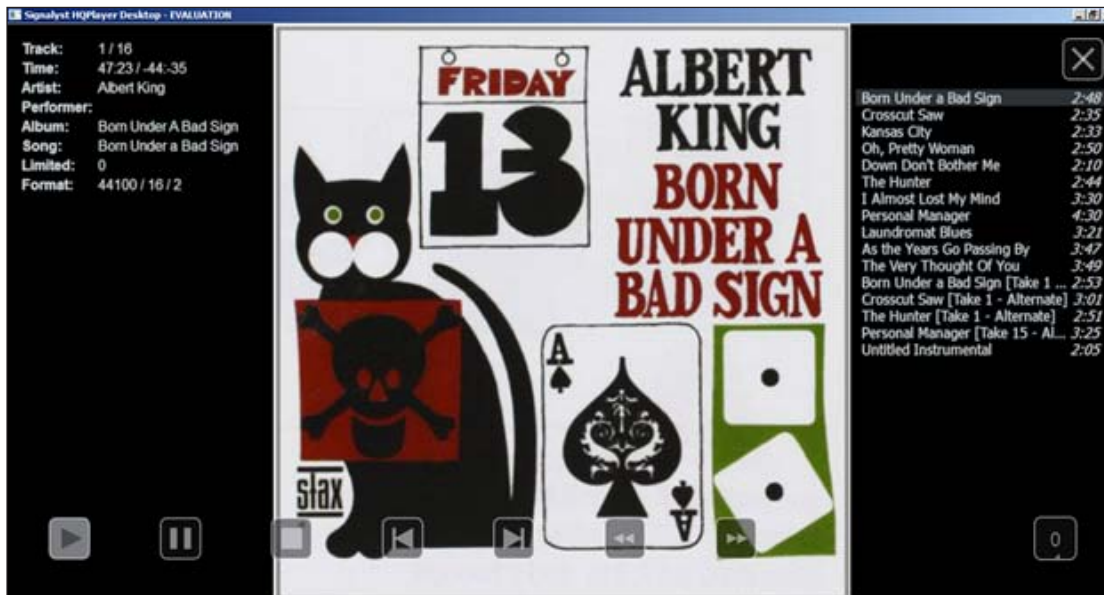
You can then drill down through the folder views, select albums and/or tracks and add them to the bottom (playlist) pane.



Then click the first, or any track, in the playlist, or  to start playing music.



There is also a full-screen mode selectable ( at the right hand end of the task bar).



8 Managing Applications

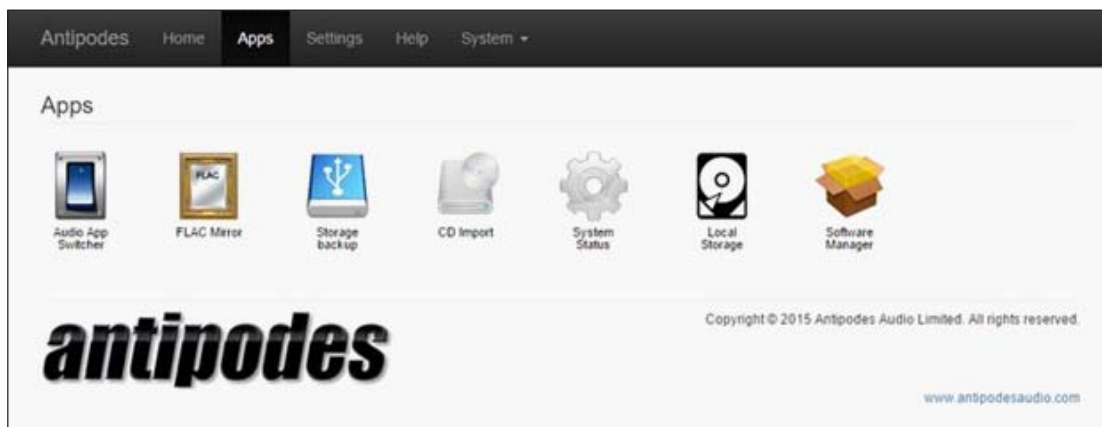
The Antipodes GUI offers a wide range of best-of-breed applications for playing music. You can choose to install or uninstall any of them with a couple of clicks. It is a good idea, from a sound quality point of view, to only install the playback applications that you intend to use regularly, because installed applications will load services at start-up that will consume

resources and raise the noise floor of the system.

You should also regularly update your Antipodes software.

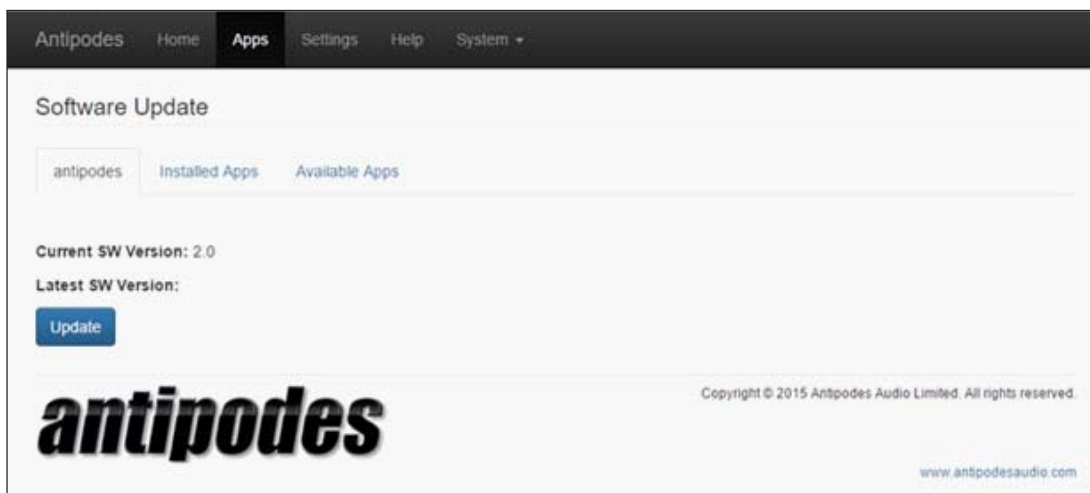
Therefore this section covers how to update the software suite, how to install applications and how to uninstall applications.

At the Antipodes GUI, select the 'Apps' menu item and click on the 'Software Manager' icon.



Updating The Software Suite

Click on the 'Update' button, confirm by clicking on 'Update' and let the process run to completion.



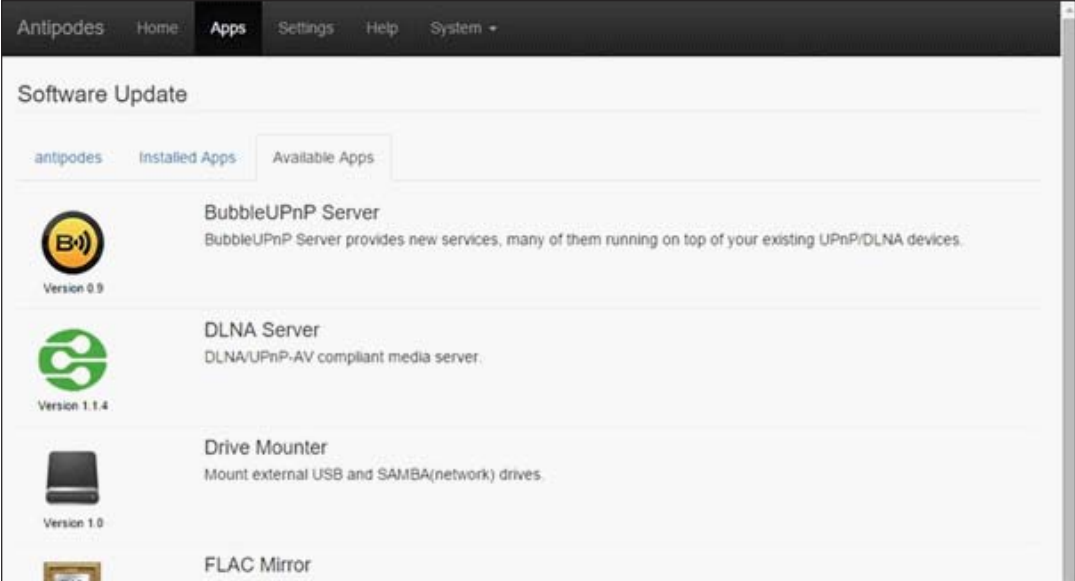
```
Upgrade in progress...
12/18/2015 23:09:50 - Starting upgrade. (This can take a long time...)

12/18/2015 23:09:50 - Updating sonicorbiter packages...
Last metadata expiration check performed 0:00:00 ago on Fri Dec 18 23:09:57 2015.
Dependencies resolved.
Nothing to do.
Complete!
12/18/2015 23:09:59 - Updating OS packages...
Last metadata expiration check performed 0:00:00 ago on Fri Dec 18 23:10:03 2015.
Dependencies resolved.
Nothing to do.
Complete!
12/18/2015 23:10:04 - Upgrade complete. Please reboot
Back to main menu
```

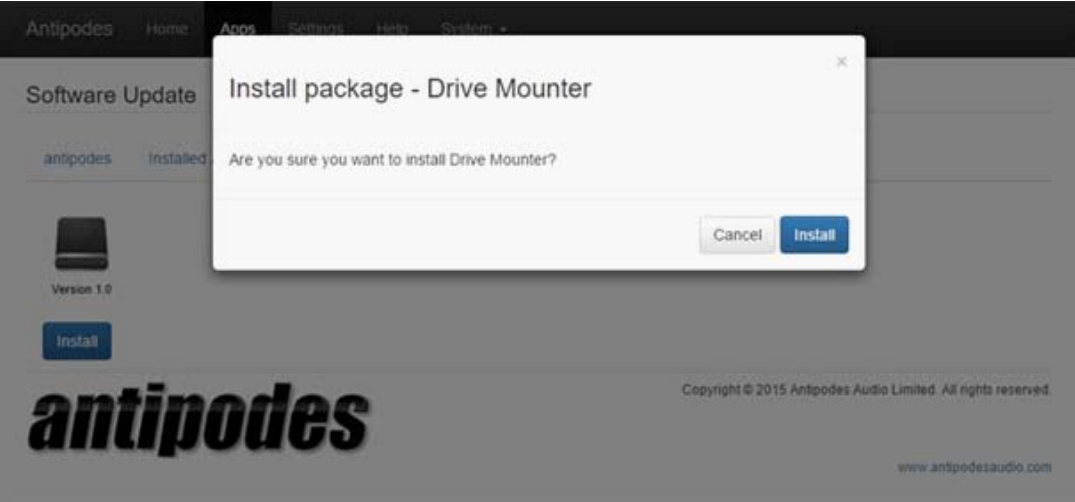
When the update has finished click on 'Back to main menu', and reboot to complete the update process.

Installing Applications

On the Software Update screen (see above) select the 'Available Apps' tab.



Click the icon of the app you wish to install and then on 'Install' and 'Install' to confirm.



```

Package install in progress...
Dependencies resolved.
=====
Package Arch Version Repository Size
=====
Installing:
cifs-utils x86_64 6 4-3.fc22 OEM 89 k
drivemounter noarch 1.0-5.fc22 sonicorbiter 7.3 k

Transaction Summary
=====
Install 2 Packages

Total download size: 96 k
Installed size: 181 k
Downloading Packages:
-----
Total 77 kB/s | 96 kB 00:01
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Installing : cifs-utils-6 4-3.fc22 x86_64 1/2
Installing : drivemounter-1 0-5.fc22 noarch 2/2
Verifying : drivemounter-1 0-5.fc22 noarch 1/2
Verifying : cifs-utils-6 4-3.fc22 x86_64 2/2

Installed:
cifs-utils x86_64 6 4-3.fc22 drivemounter noarch 1.0-5.fc22

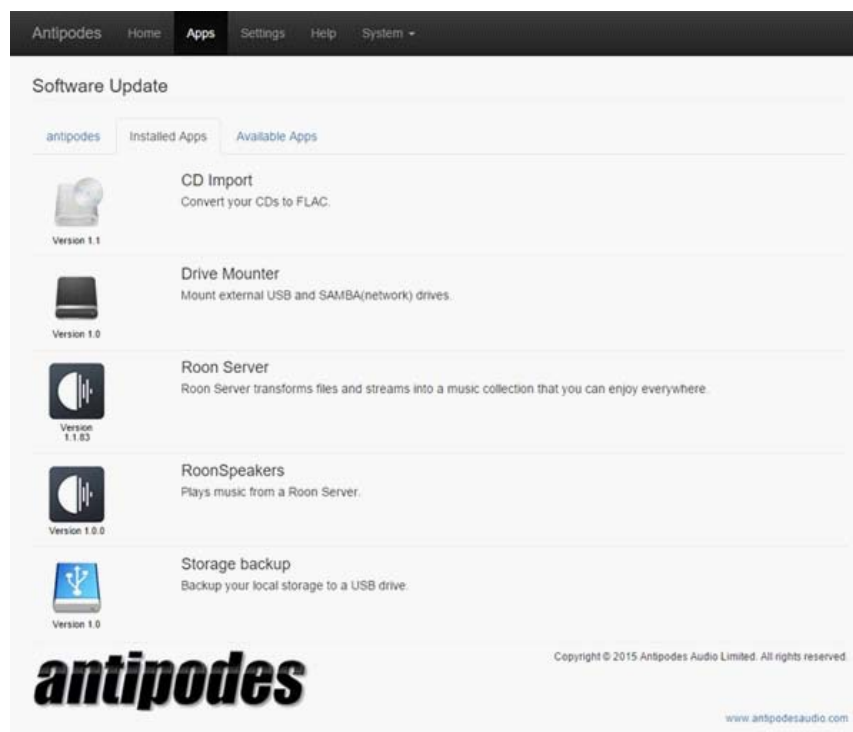
Complete!
12/18/2015 23:45:17 - Installing SMB.
Last metadata expiration check performed 0:00:06 ago on Fri Dec 18 23:45:12 2015.
Package samba-2.4.2-1.fc22.x86_64 is already installed, skipping.
Package avahi-0.6.31-32.fc22.x86_64 is already installed, skipping.
Dependencies resolved.
Nothing to do.
Complete!
Setting system name to antipodes
Back to Package Manager

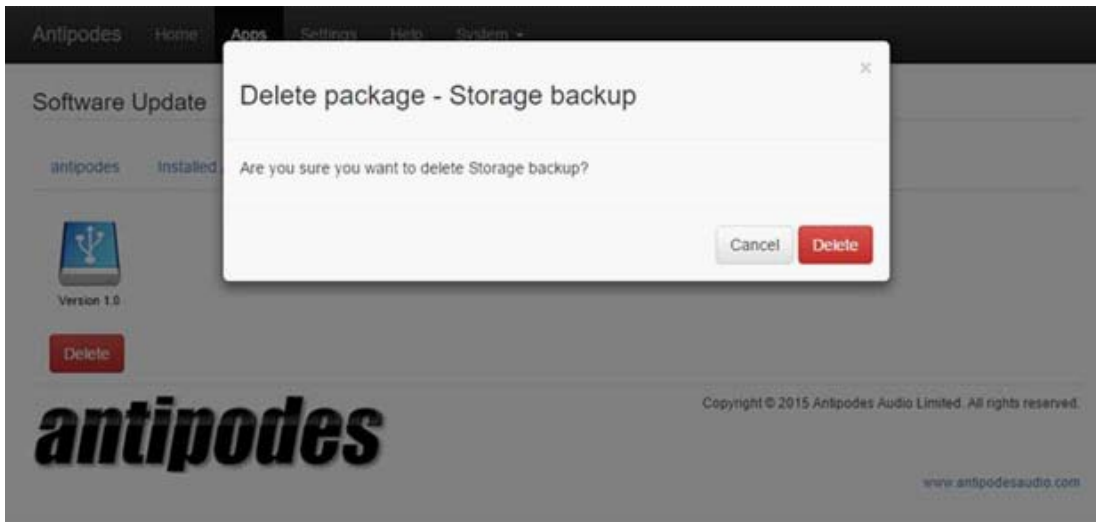
```

Click on 'Back to Package Manager'. The application has now been installed and can be seen in 'Installed Apps'.

Uninstalling Applications

On the Software Update screen (see above) select the 'Installed Apps' tab and click the icon of the application you wish to uninstall.





Click on 'Delete' and 'Delete' to confirm, and the application will be removed from the 'Installed Apps' list and appear on the 'Available Apps' list.

9 Administration Applications

INTRODUCTION

The Antipodes GUI includes a number of additional applications for system information and administration. This section covers each of these, and includes:

1. Flac Mirror
2. Backup
3. System Information
 - Local Storage Information
 - Localization
 - Network System Name

9.1 FLAC Mirror

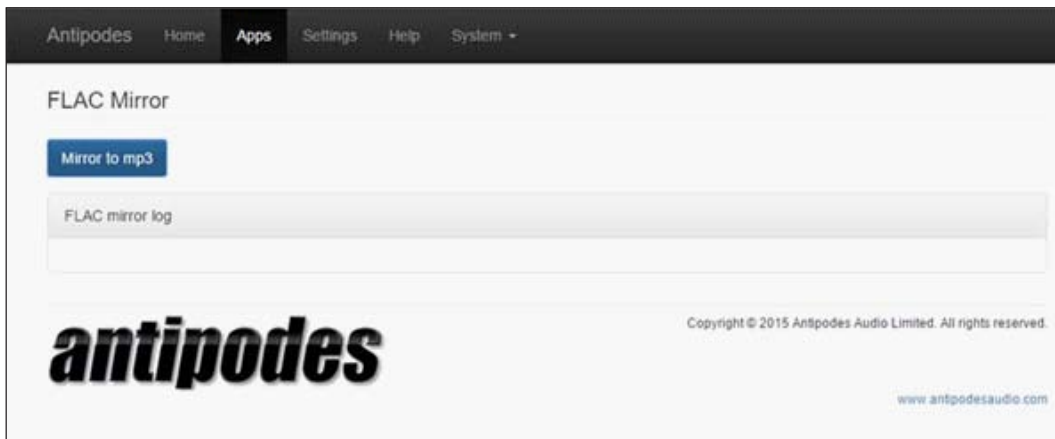
This application provides you with a very simple way to make compressed copies of your music files, which can be more suitable for your mobile devices or for streaming over a low-speed network.

With a couple of mouse-clicks you can make copies of your entire collection to mp3 format. The original files are not changed in any way. A handy feature of this app is that if you add new music the FLAC Mirror app will only need to mirror the new files.

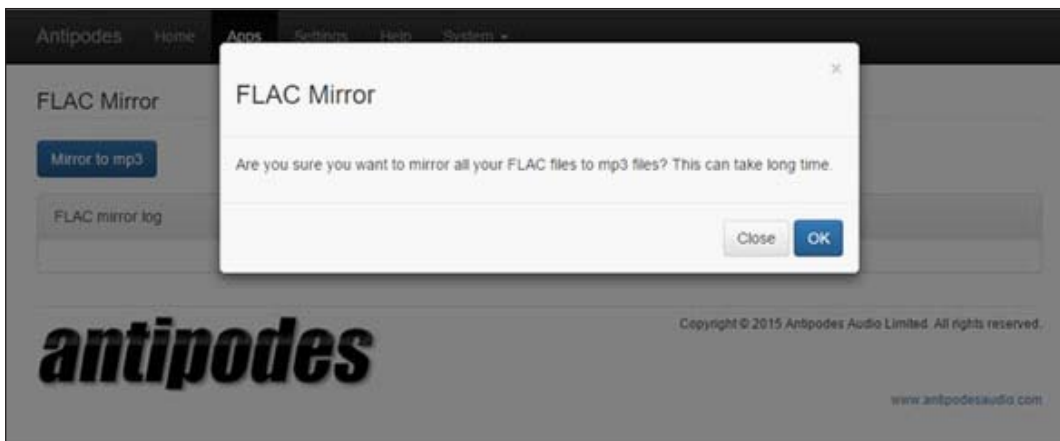
The mp3 files are located at \\antipodes\storage\music\mp3. You can set this location as a music source in a network player, or copy from this location to your mobile device.

If you need a wider range of functionality for transcoding files, see the section in this guide 'Manage Files' for how to use your preferred third-party app.

At the Antipodes GUI, select the 'Apps' menu item, and then click on the 'FLAC Mirror' icon.



Click on the 'Mirror to mp3' button and then on 'OK'. The screen will report progress throughout the process.



9.2 Storage Backup

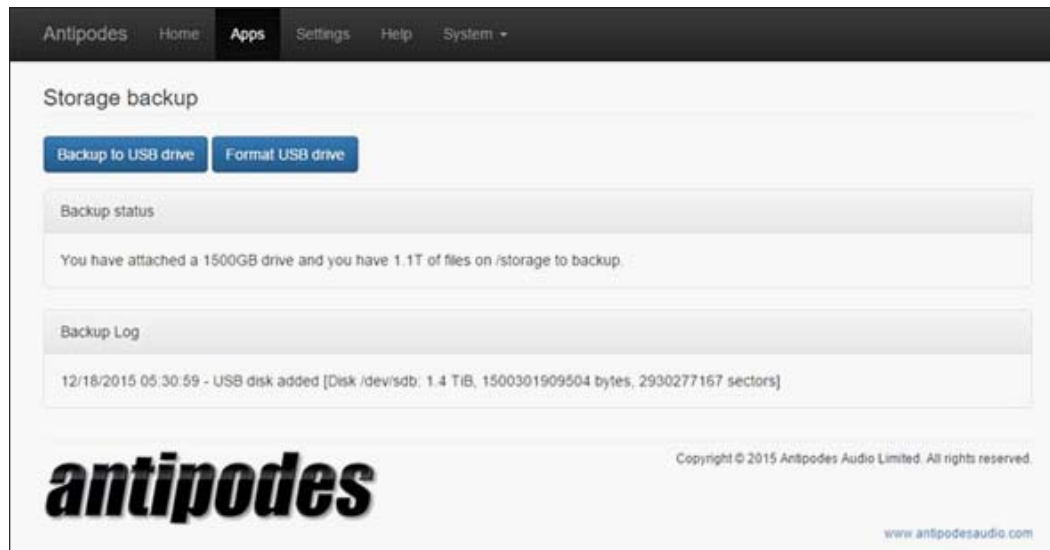
We strongly recommend that you make backups of your music library.

This application provides you with a very simple way to make incremental backup copies of your music files. 'Incremental' means that if you add new music the Storage Backup app will only copy the new files. The backup is unencrypted, so you can remove the

drive from the Antipodes, attach it to another device, and copy from it.

For this reason there is no need for a Restore application. The files on your backup drive are easily and simply copied back onto the Antipodes. See section 6.2 of this guide for a description of how to do this.

Connect an external USB drive to a spare USB port (but not a USB Audio port) at the back of your Antipodes. At the Antipodes GUI, select the 'Apps' menu item, and then click on the 'Storage Backup' icon.

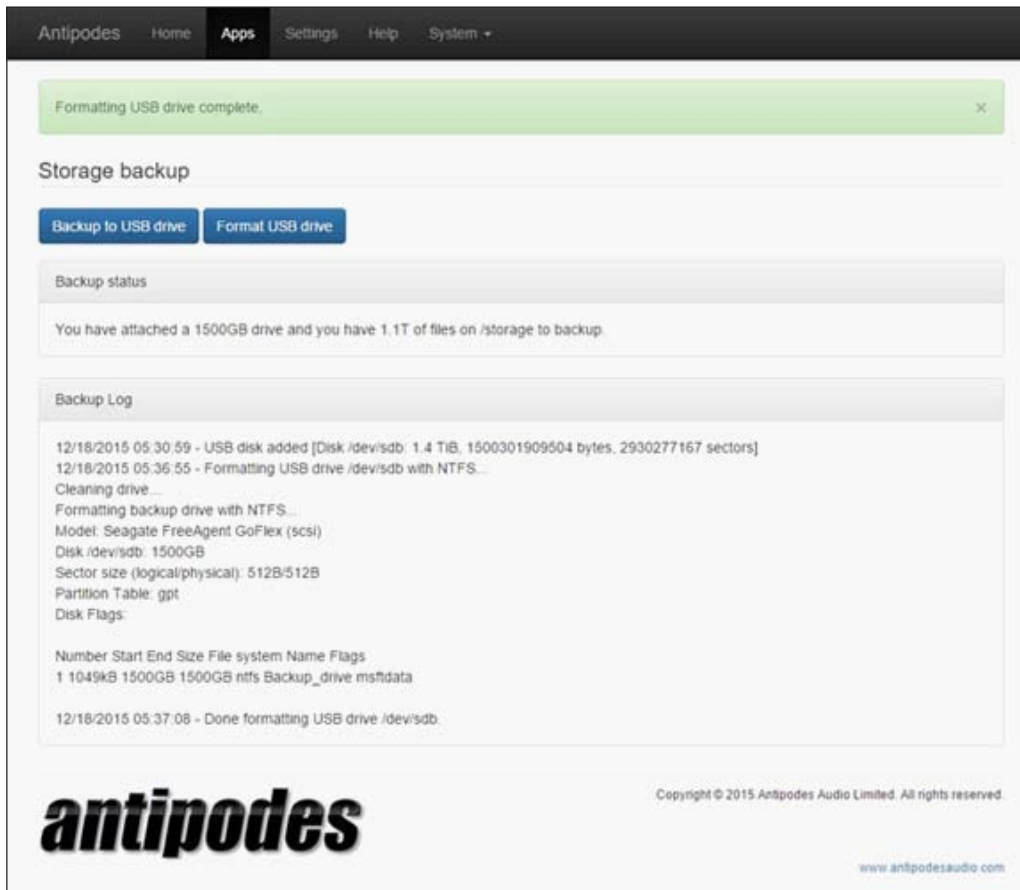


If this is the first time you have connected the USB drive to the Antipodes for backup, make sure you do not need any files that are currently on the drive, and click on the 'Format USB drive' button.

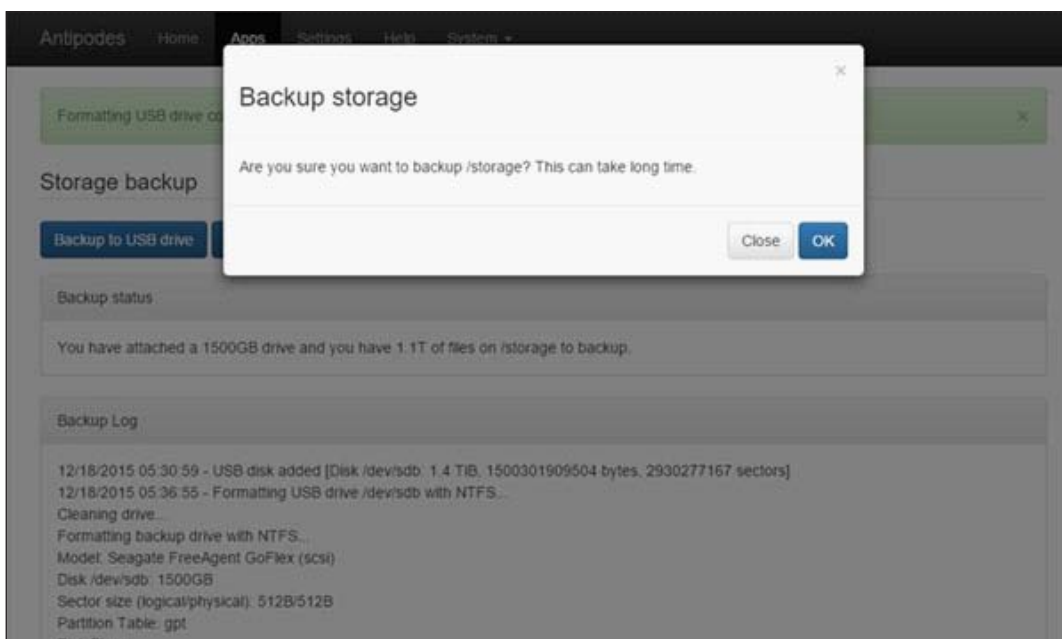
If you have backed up to this USB drive before do not format it and go straight to the step below to click on the 'Backup to USB drive' button, and the process will only add new and changed files to the USB drive.



Click 'OK' and the screen will display progress until it has finished formatting the USB Drive.



When the USB drive has been formatted then click the 'Backup to USB drive' button.



Click the 'OK' button and the screen will display progress until it has finished the backup to the USB Drive, adding all new and changed files added since the last backup.

The screenshot shows the 'Storage backup' interface in the Antipodes web application. At the top, there is a navigation bar with 'Antipodes', 'Home', 'Apps', 'Settings', 'Help', and 'System'. Below the navigation bar, the 'Storage backup' section contains two buttons: 'Backup to USB drive' and 'Format USB drive'. Underneath, the 'Backup status' section displays the message: 'You have attached a 1500GB drive and you have 2.1G of files on /storage to backup'. The 'Backup Log' section lists the files backed up, including a directory structure for 'music/imp3/Jazz Vocal/Kat Edmonson/Take To The Sky/' with 10 MP3 files, a 'cover.jpg' file, a 'folder.jpg' file, and two other directories: 'music/playlist/' and 'pictures/'. Below the file list, the backup progress is shown: 'sent 585,069,991 bytes received 3,863 bytes 21,275,412.87 bytes/sec', 'total size is 2,136,356,917 speedup is 3.65', and the completion time '12/18/2015 15:43:28 - Backup finished'. A final message reads: '12/18/2015 15:43:32 - You can now safely disconnect your USB drive.' At the bottom of the interface, the 'antipodes' logo is on the left, and the copyright notice 'Copyright © 2015 Antipodes Audio Limited. All rights reserved.' and the website 'www.antipodesaudio.com' are on the right.

When the backup has finished disconnect the USB drive and store it in a secure place.

9.3 System Information

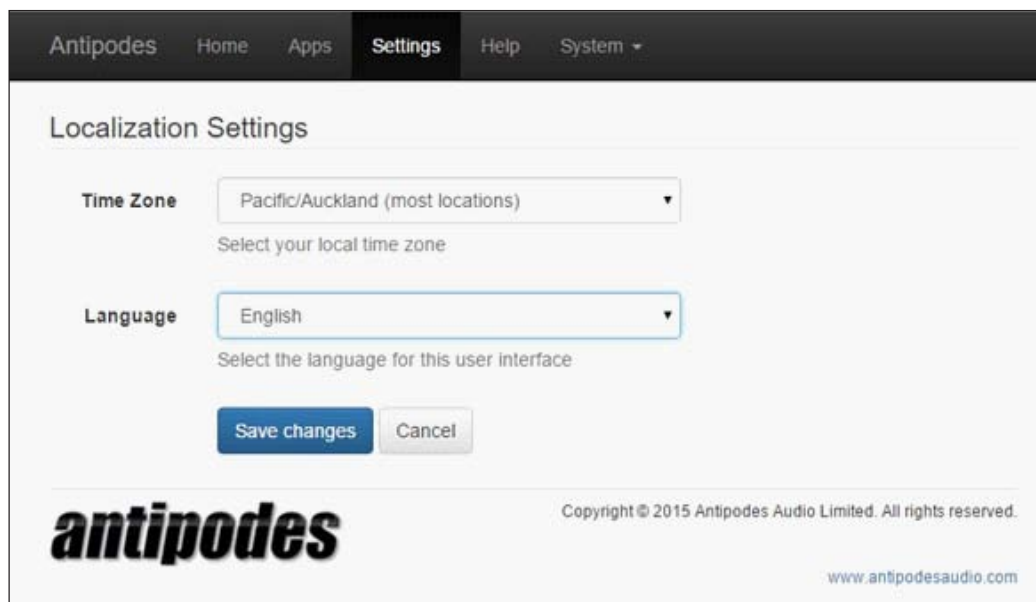
1. Local Storage

At the Antipodes GUI, select the 'Apps' tab and click on the 'Local Storage' icon. Note that 1TB (one trillion bytes) of space is reported by computers as 0.9TB due to the binary number system used.



2. Localisation

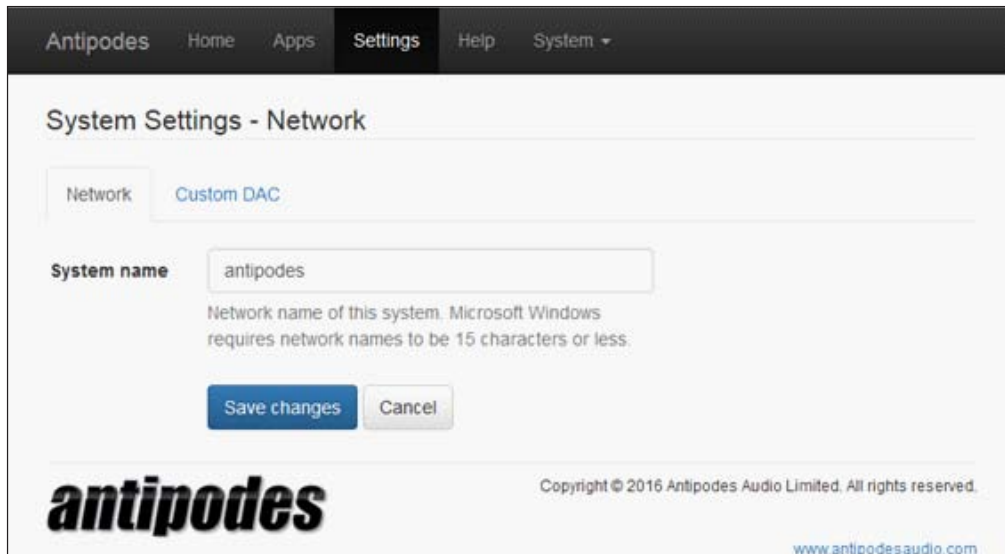
At the Antipodes GUI, select the 'Settings' tab and click on the 'Localization' icon. You can set the time zone you live in and your preferred language. Click on 'Save Changes' when you have finished.



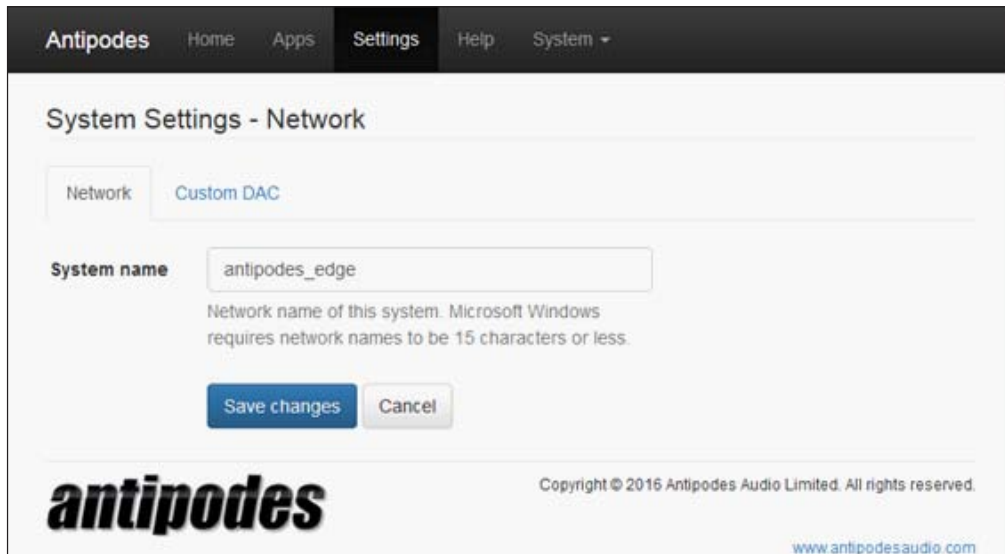
3. Network System Name

When you have more than one Antipodes in your network you will want to give them different names, so that you can more easily recognise which is which when setting things up.

At the Antipodes GUI, select the 'Settings' menu item, and click on the 'System Settings' icon.



In the 'Network' tab type in the new System Name (max. 20 characters). It is advisable to use only lower-case letters and numbers without spaces; you can use hyphens or underscore symbols.



Click 'Save Changes' and then reboot your Antipodes for the change to take place and for your router to recognise the new name.

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