

Making Sound Files In Audacity



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Node Custom Audio Files

Making your own custom audio files for the node is not that difficult if you follow the steps carefully.

Change Node ID Sound File

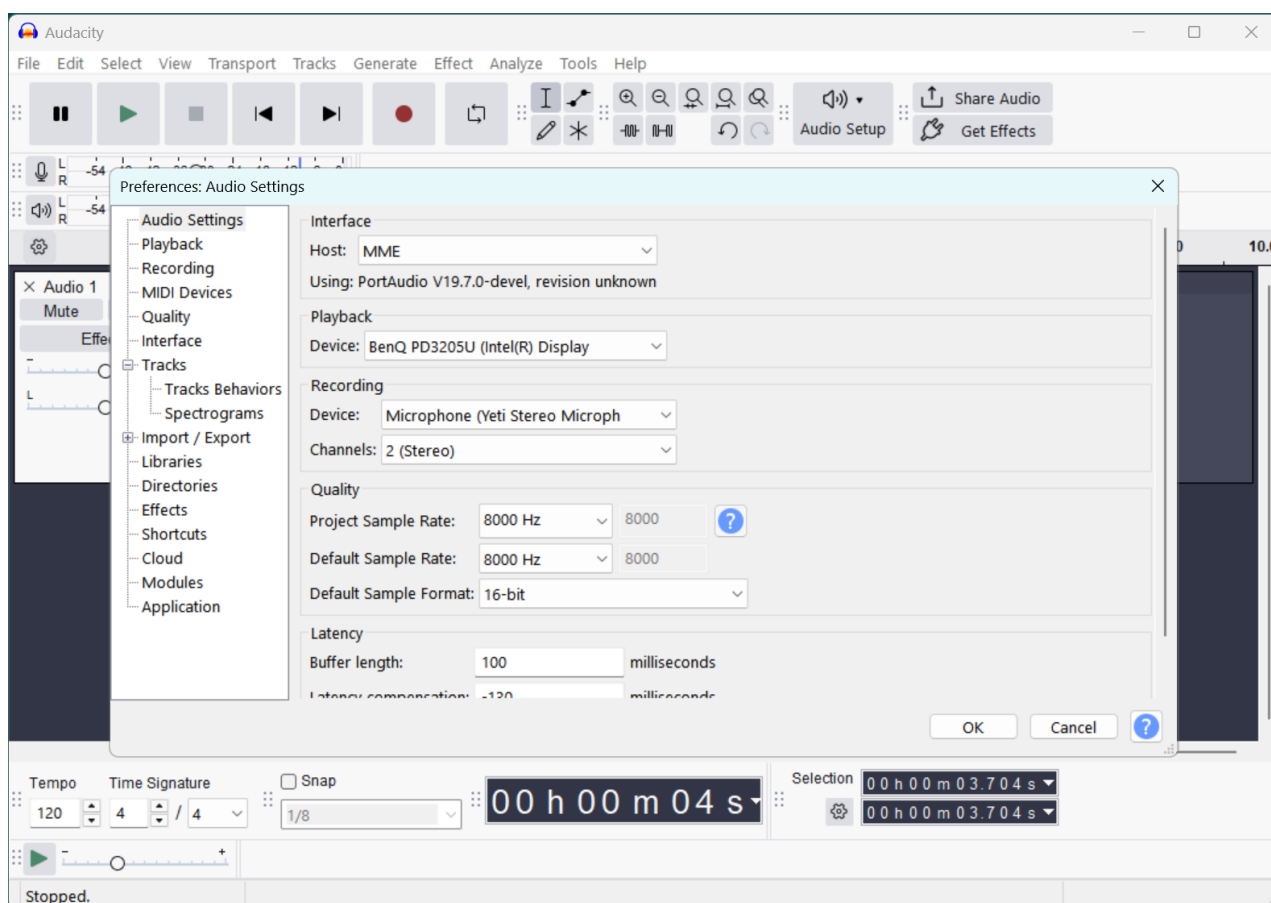
For this example, let's change the node id sound file.

Audacity (Windows)

In this example, I am using the latest version of Audacity for Windows which at the of writing is 3.7.5. These steps may also be similar for other platforms such as macOS or Linux but I haven't confirmed that.

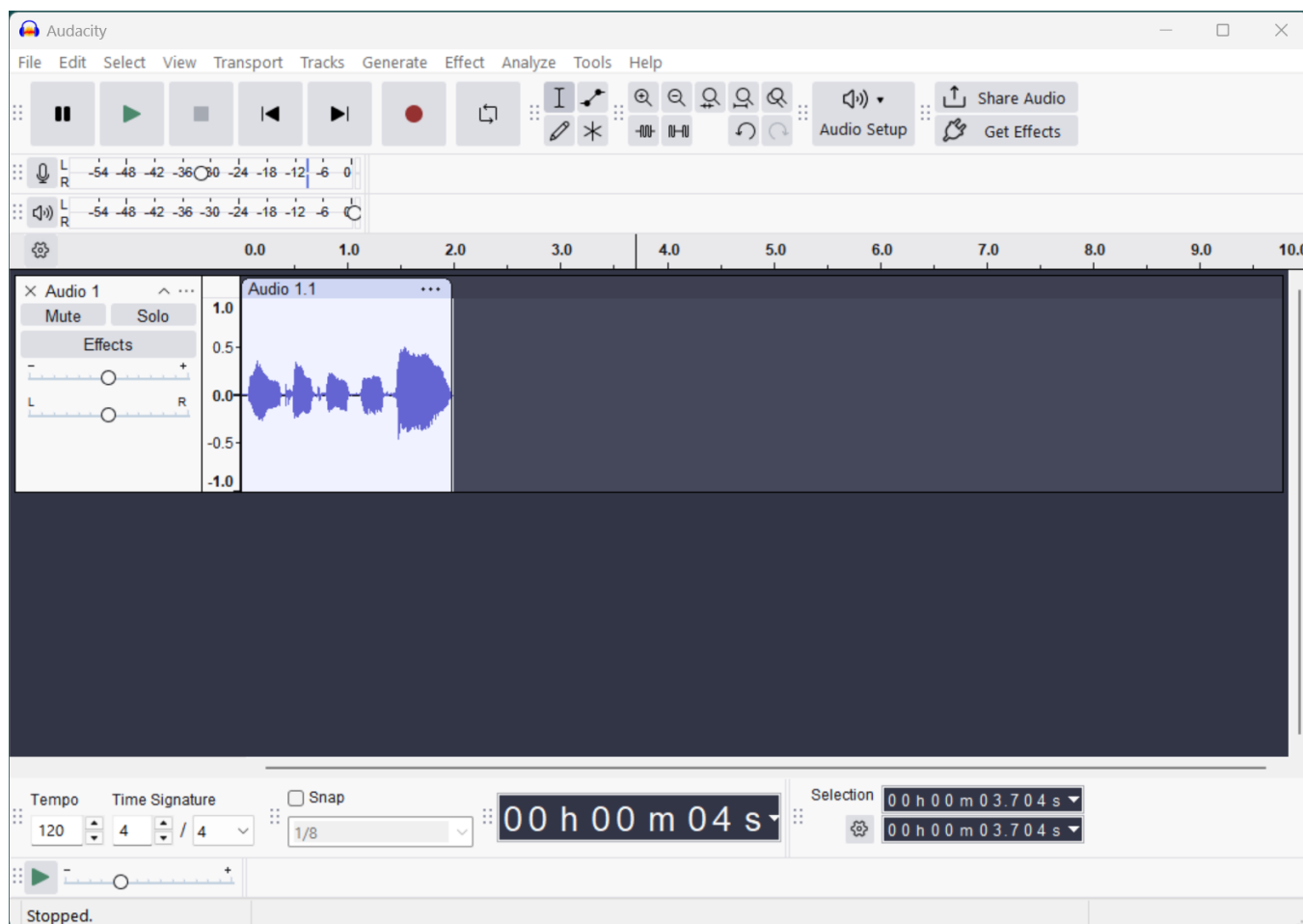
Sample Rate

Open the Preferences window under the Edit Menu option. Then under Audio Settings set the project sample Rate and Default Sample Rate to 8000 Hz. Under the Sample Format, change this to 16-bit



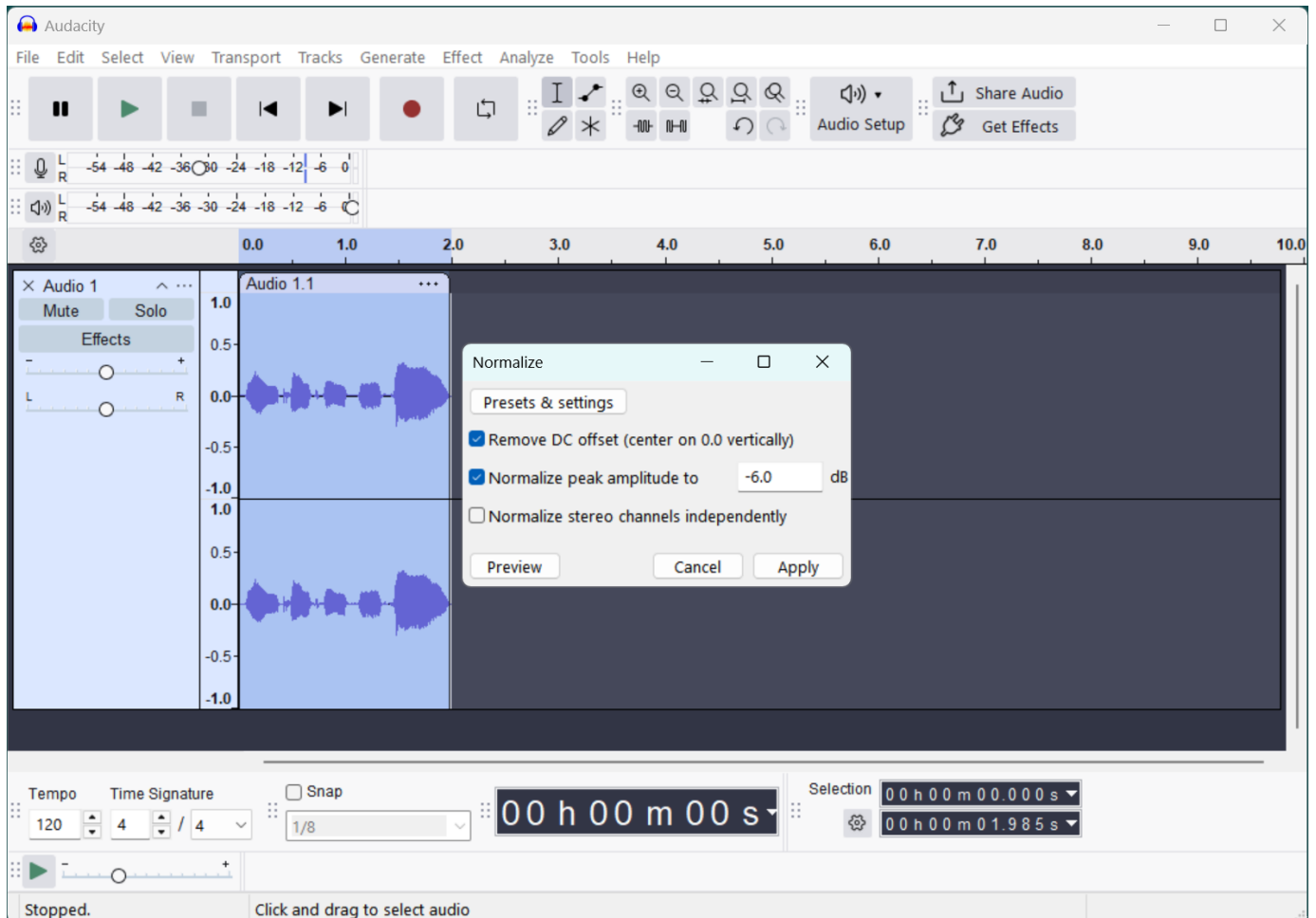
Mix To Mono

Make your recording, trim off the ends and play it back to make sure you are happy with it. From the menu bar, choose Tracks -> Mix To Mono if you recorded in stereo, this will give you a single mono track.



Normalise

Normalise the audio by selecting Effects -> Volume And Compression -> Normalise from the menu bar and normalise to about -6.0db

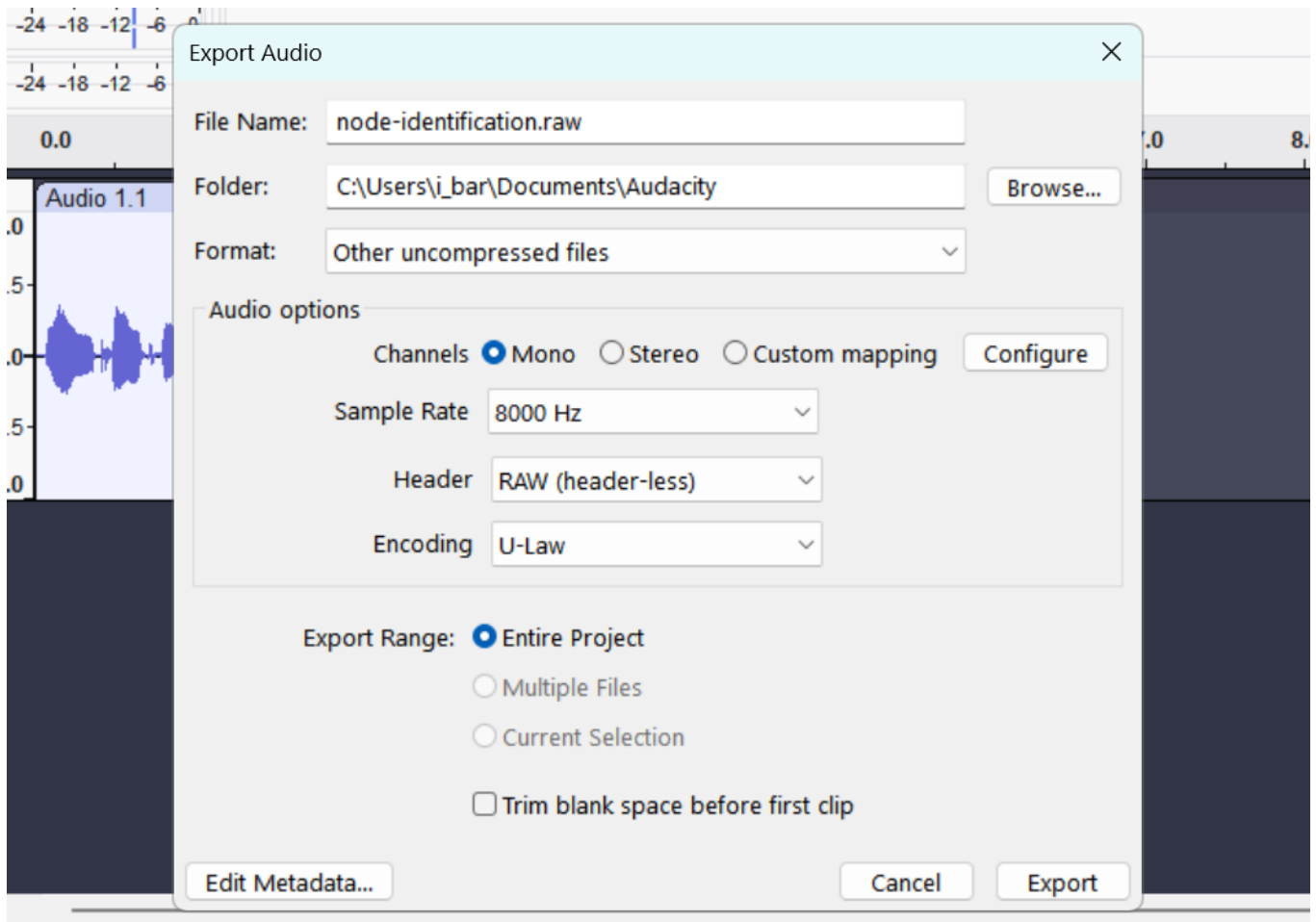


Exporting

From the menu bar, choose File -> Export Audio. Under the Format choose Other from the dropdown list. Set Sample Rate to 8000 Hz. Set the Header to RAW (header less). Set the Encoding to U-Law.

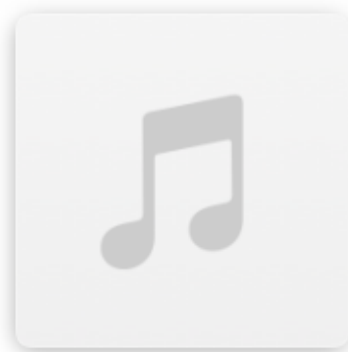
At the top next to File Name, enter a name for the file. It will automatically add .raw to the end, don't worry about this as we will change it in the next step.

Press Export to export the file.



Rename File

Go to where you saved the file to and replace raw with ulaw (dont delete the .)



node-id.ulaw

Uploading To The Pi

Login to the Raspberry Pi using your preferred SFTP program and upload the file to `/etc/asterisk/local` or a folder of your choice.

Updating `rpt.conf`

Open **`rpt.conf`** and look for **`idrecording=`** (*un-comment it if its commented out*)

Change the line to reflect your newly created file

`idrecording=/etc/asterisk/local/node-id` ← leave off the `.ulaw` extension

Reload Asterisk

Your node will now play your newly created id sound file.