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SAM Broadcaster
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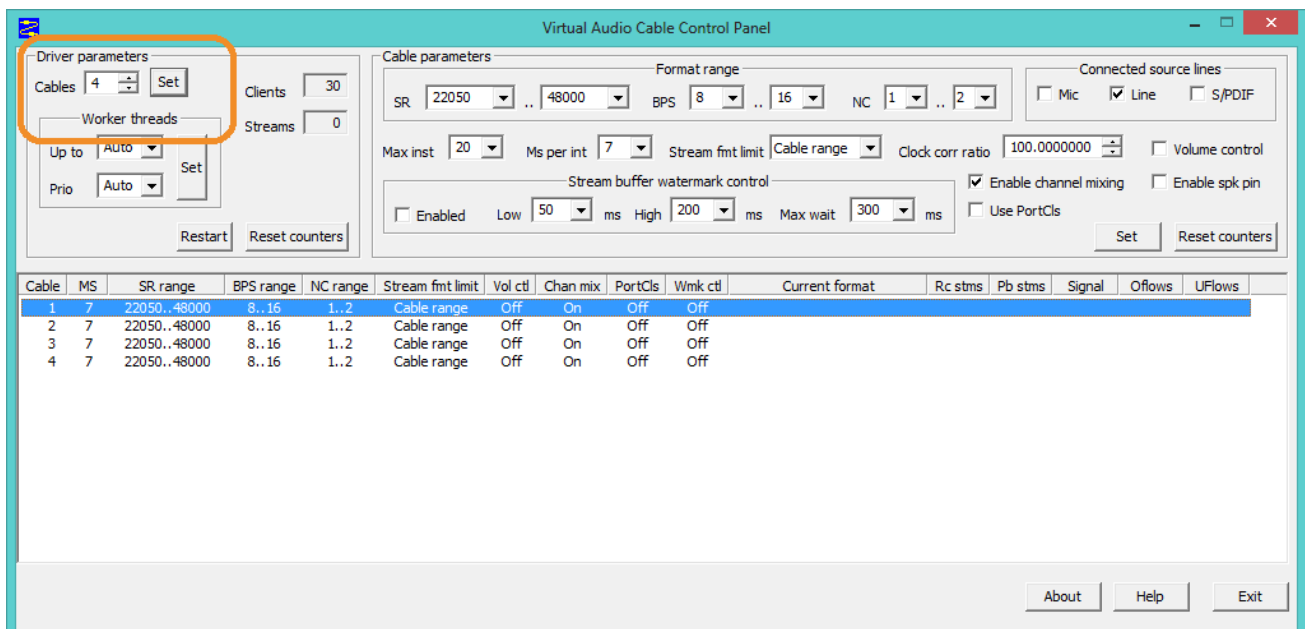
Using Skype with SAM Broadcaster

Using internet telephony programs like Skype® with SAM Broadcaster requires a few different puzzle pieces but it is easily configured if you follow the 5 simple steps in these instructions.

You will need the following:

1. A **microphone** plugged into the input of your computer's audio card and **headphones** plugged into the audio card's output. While a USB microphone can be used, the approach described here will use a non-USB microphone.
2. The **Virtual Audio Cables** application found at http://software.muzychenko.net/eng/vac.html. This is a great little program that allows you to virtually re-route audio using only software. This application should be installed before starting the configuration process described in this document.
3. **Skype** or a similar application. This application should be installed and working before starting the configuration process described in this document.
4. SAM Broadcaster's **VoiceFX** module. SAM Broadcaster should be installed and working before starting the configuration process described in this document.
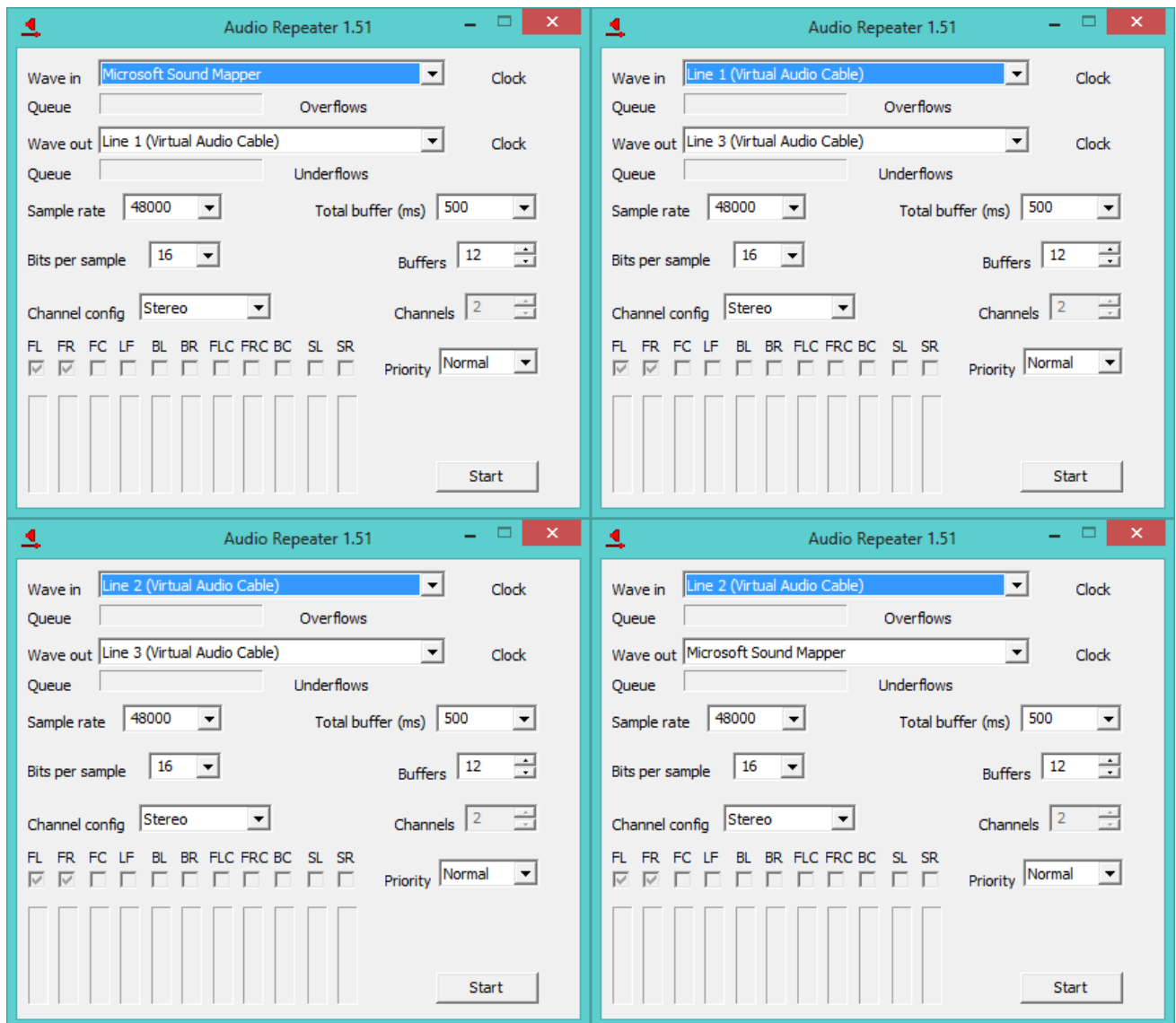
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Open the **Virtual Audio Cable Control Panel** and set up four "Cables". This will allow you to run four copies of the Audio Repeater. To do this, change the **Driver parameters** setting to 4 and click the **Set** button. Once the driver has restarted, **Exit** the Control Panel.
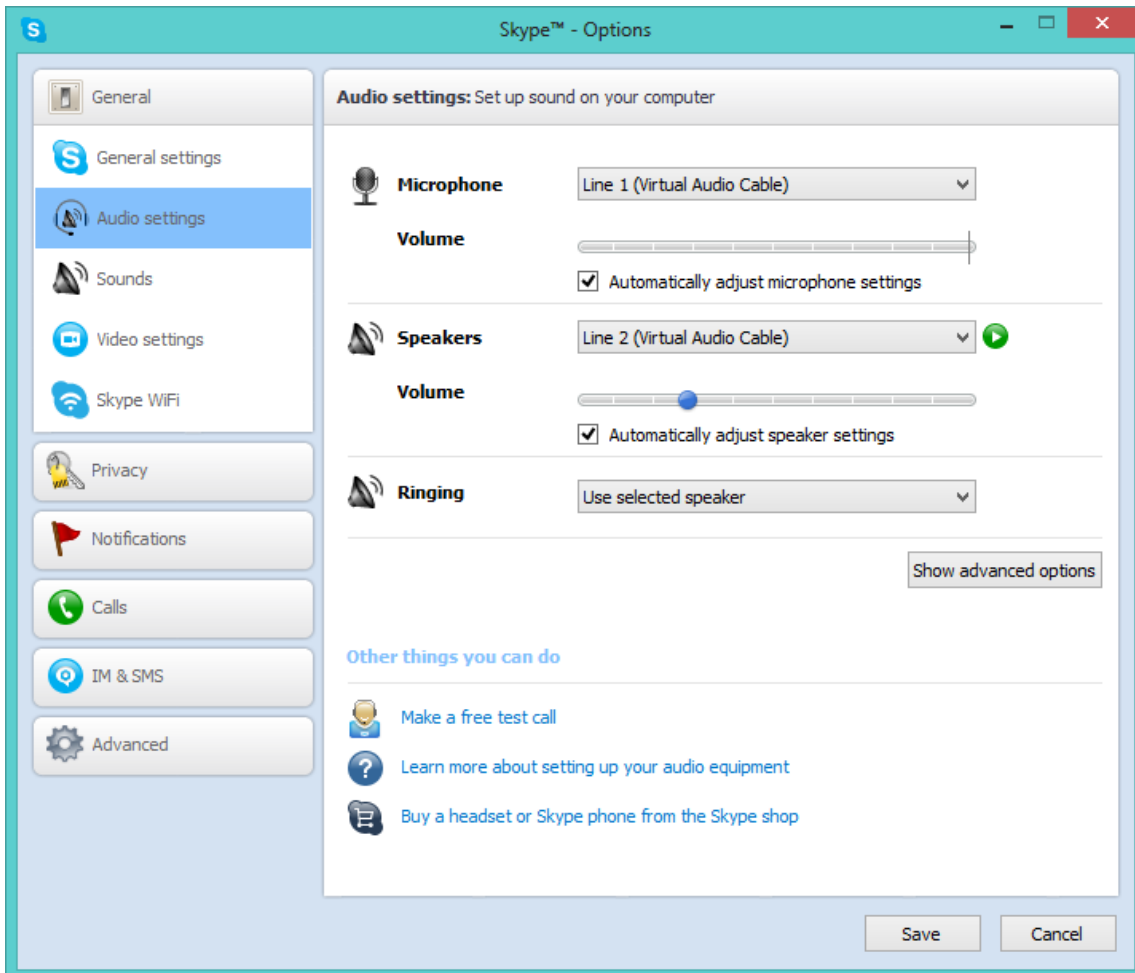
Open four copies of the **Virtual Audio Cable Audio Repeater** and set the inputs and outputs as follows and shown in the image below:

	Wave In	Wave Out
Audio Repeater 1	Microphone/Audio Card Input	Virtual Cable 1
Audio Repeater 2	Virtual Cable 1	Virtual Cable 3
Audio Repeater 3	Virtual Cable 2	Virtual Cable 3
Audio Repeater 4	Virtual Cable 2	Audio Card Output/Headphones

Start each repeater by clicking the **Start button** which can be minimized to keep your desktop tidy.

Open Skype and access the **Audio Settings** Options sheet by clicking **Tools** on the Skype menu and selecting **Options**. In the General group, click Audio settings. Set your **Microphone Input** to **Virtual Cable 1** from the drop-down box. Set your **Speaker Output** to **Virtual Cable 2** from the drop-down box.
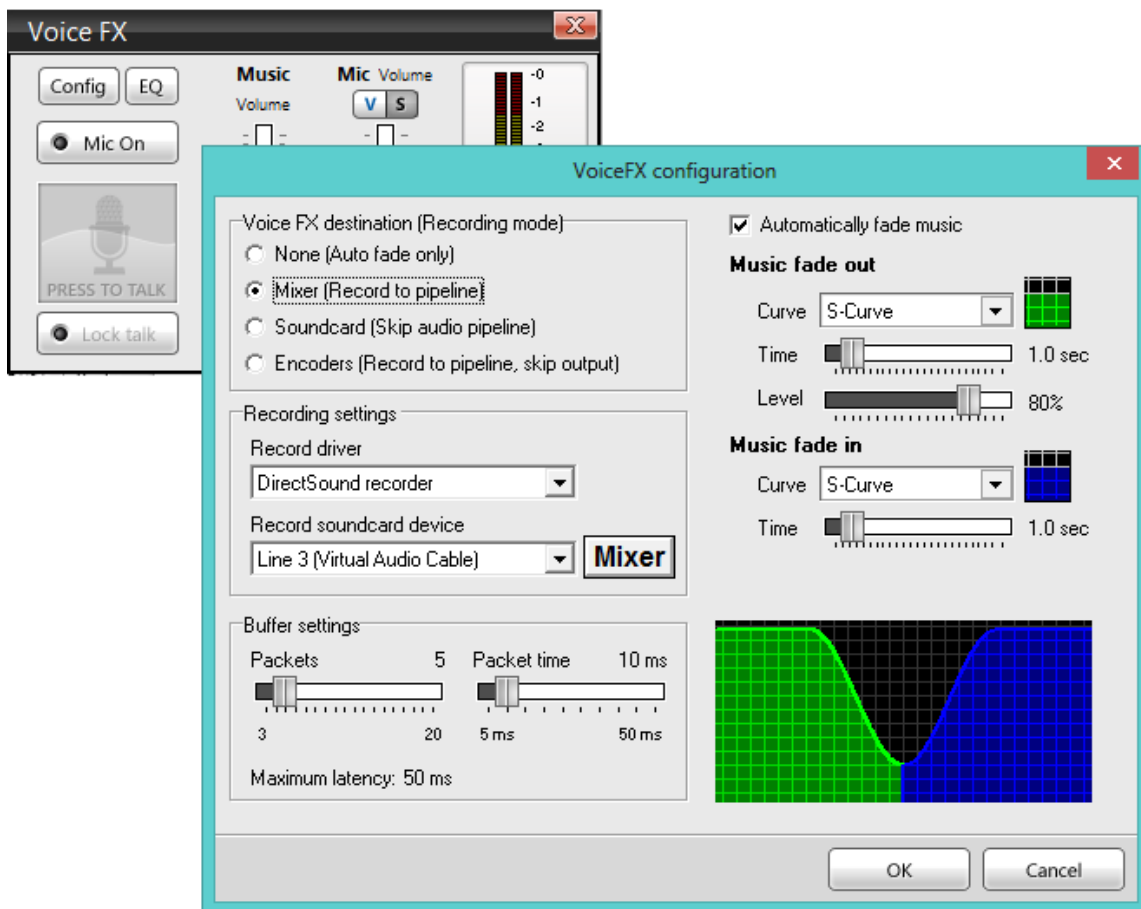

Click **Save** to save your changes and close the options window.

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To run the mixed Skype audio through SAM Broadcaster, we "plug" **Virtual Cable 3** (our mixed microphone/Skype audio) through the **VoiceFX** module.

> **Tip:** If you don't see the **VoiceFX** module on your SAM Desktop, you can make it visible by clicking Windows on the SAM Broadcaster menu and selecting **VoiceFX**.

Click **Config** on the **VoiceFX** module, and set the **Record soundcard device** to **Virtual Cable 3**.

Click OK to save the change and close the **VoiceFX** configuration window.

> **Tip:** If you have trouble hearing the Skype conversation being "echoed" over SAM, try changing the VoiceFX destination/recording mode setting to Encoders (Record to pipeline, skip output).

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When you are ready to run a Skype call on your stream, click the button on the **VoiceFX** window that says Mic off. The button will illuminate and report a status of Mic On. Clicking **Press to Talk** (or **Lock talk**) will take the mixed Skype audio from **Virtual Cable 3** and run it through **SAM Broadcaster** out to your encoder and your stream.

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