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SAM Broadcaster Using Skype with SAM Broadcaster

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.

1

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.

Virtual Audio Cable Control Panel - 🗆	×
Driver parameters Cable parameters Format range Connected source lines Cables 4 Set Clients 30 Worker threads Streams 0 BPS 8 16 NC 1 2 Mic Image: Clients S/PI Max inst 20 Ms per int 7 Stream fmt limit Cable range Clock corr ratio 100.0000000 Image: Clock corr ratio 100.0000000 Image: Clock corr ratio Volume co Stream Stream buffer watermark control Image: Clock corr ratio 100.0000000 Image: Clock corr ratio 100.0000000 Image: Clock corr ratio Volume co Stream buffer watermark control Image: Clock corr ratio Image: Clock corr ratio 100.0000000 Image: Clock corr ratio Volume co Stream buffer watermark control Image: Clock corr ratio Image: Clock corr ratio 100.0000000 Image: Clock corr ratio Volume co Breaded Low 50 ms High 200 ms Max wait 300 ms Set Reset courters	ntrol pin
Cable MS SR range BPS range NC range Stream fmt limit Vol ct Chan mix PortCls Wmk ct Current format Rc stms Pb stms Signal Oflows UFlows	
1 7 22050.48000 816 12 Cable range Off On Off Off 2 7 22050.48000 816 12 Cable range Off Off Off 3 7 22050.48000 816 12 Cable range Off On Off Off 4 7 22050.48000 816 12 Cable range Off On Off Off 4 7 22050.48000 816 12 Cable range Off On Off Off	•
About Help	Exit

2

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.

💶 Audio Repeater 1.51 - 🗆 🗙	🖣 Audio Repeater 1.51 - 🗆 🗙
Wave in Microsoft Sound Mapper Clock Queue Overflows	Wave in Line 1 (Virtual Audio Cable) Clock Queue Overflows
Wave out Line 1 (Virtual Audio Cable) Clock Queue Underflows	Wave out Line 3 (Virtual Audio Cable) Clock Oueue Underflows
Sample rate 48000 Total buffer (ms) 500	Sample rate 48000 Total buffer (ms) 500
Bits per sample 16 Buffers 12	Bits per sample 16 💌 Buffers 12 📩
Channel config Stereo Channels 2	Channel config Stereo Channels 2
FL FR FC LF BL BR FLC FRC BC SL SR	FL FR FC LF BL BR FLC FRC BC SL SR
Start	Start
🔩 Audio Repeater 1.51 - 🗆 🗙	🔩 Audio Repeater 1.51 - 🗆 🗙
Wave in Line 2 (Virtual Audio Cable) Clock	Wave in Line 2 (Virtual Audio Cable) Clock Oueue Overflows
Quede OVERIOWS	Quede
Wave out Line 3 (Virtual Audio Cable) Clock	Wave out Microsoft Sound Mapper Clock
-	
Wave out Line 3 (Virtual Audio Cable) Clock Queue Underflows	Wave out Microsoft Sound Mapper Clock Queue Underflows
Wave out Line 3 (Virtual Audio Cable) Clock Queue Underflows Sample rate 48000 Total buffer (ms) 500 T	Wave out Microsoft Sound Mapper Clock Queue Underflows Sample rate 48000 Total buffer (ms) 500
Wave out Line 3 (Virtual Audio Cable) Queue Underflows Sample rate 48000 Total buffer (ms) 500 Bits per sample 16 Buffers 12	Wave out Microsoft Sound Mapper Queue Underflows Sample rate 48000 Kongenerate 16 Kongenerate 16 Kongenerate 12 Kongenera

3

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.

S Skype™ - Options – □ ×			
General	Audio settings: Set up sou	und on your computer	
General settings	Microphone	Line 1 (Virtual Audio Cable)	
Audio settings	Volume		
Sounds		 Automatically adjust microphone settings 	
🔁 Video settings	Speakers	Line 2 (Virtual Audio Cable) 🗸 🕥	
Skype WiFi	Volume		
Privacy	Ringing	Automatically adjust speaker settings	
Notifications	and Kinging	Use selected speaker V	
Calls		Show advanced options	
IM & SMS	Other things you can d	lo	
	Make a free test ca	ll	
Advanced	Learn more about setting up your audio equipment		
	Buy a headset or Si	kype phone from the Skype shop	
		Save Cancel	

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

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.

Voice FX		
Config EQ Mic On	Music Mic Volume -0 Volume V S -1 -2 -2	
	VoiceFX con	figuration ×
	└Voice FX destination (Recording mode)	Automatically fade music
	C None (Auto fade only)	Music fade out
PRESS TO TALK	 Mixer (Record to pipeline) 	Curve S-Curve
 Lock talk 	C Soundcard (Skip audio pipeline)	Time 1.0 sec
	C Encoders (Record to pipeline, skip output)	
	Recording settings	
	Record driver	Music fade in
	DirectSound recorder	Curve S-Curve
	Record soundcard device Line 3 (Virtual Audio Cable)	Time Time 1.0 sec
	Line 3 (Virtual Audio Cable)	
	Buffer settings	
	Packets 5 Packet time 10 ms	
	3 20 5ms 50ms	
	Maximum latency: 50 ms	
		OK Cancel

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).



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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Document version 2015.1