

NDI[®]

OBS to Zoom with NDI
ryan h 2020

what is NDI?

Network Device Interface (NDI) is a royalty-free software standard developed by NewTek to enable video-compatible products to communicate, deliver, and receive high-definition video over a computer network in a high-quality, low-latency manner that is frame-accurate and suitable for switching in a live production environment.

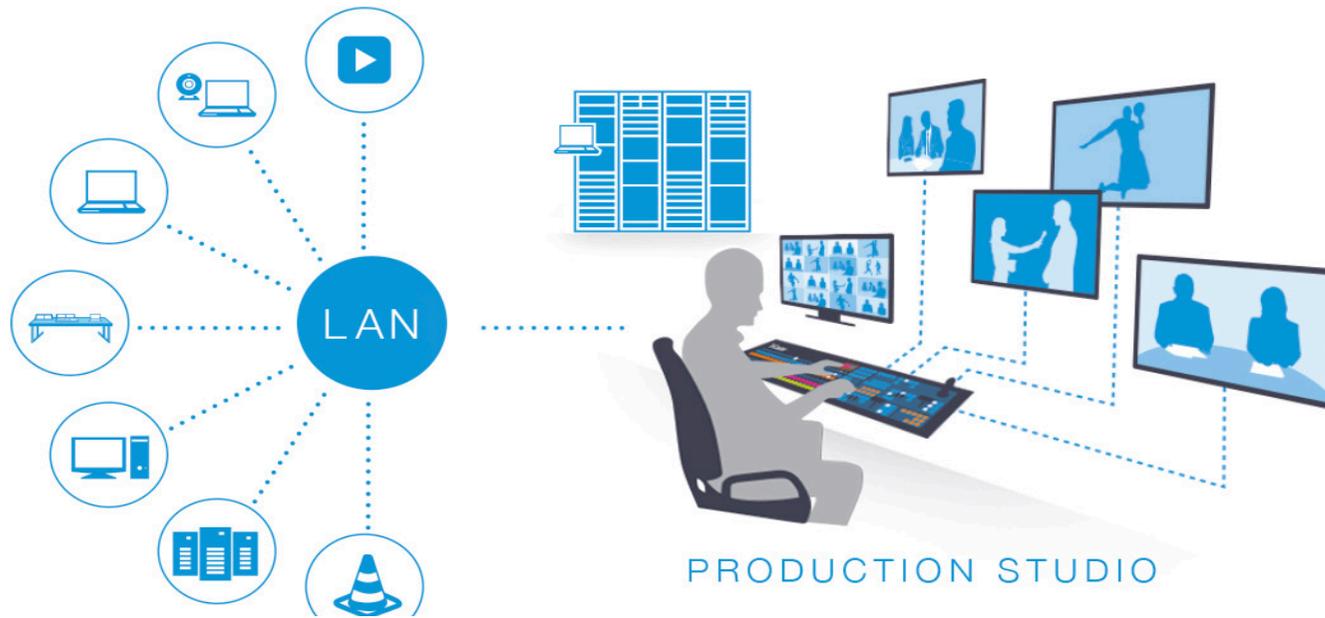
NDI is designed to run over gigabit Ethernet, with the NDI codec expected to deliver 1080i HD video at VBR data rates typically around 100 Mbit/s.

NewTek, Inc. is a San Antonio, Texas–based hardware and software company that produces live and post-production video tools and visual imaging software for personal computers.



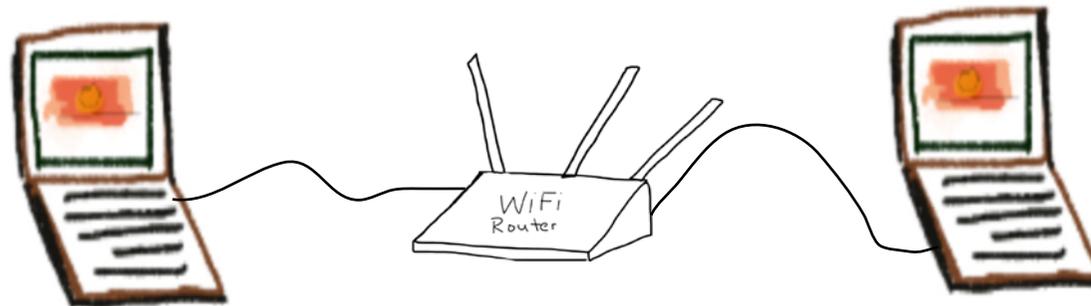
<https://www.newtek.com/ndi/applications/>

Sample Usage: studio / home



My Home LAN (local area network)

You can use NDI on your phone. You can also create a fast LAN (Local Area Network) using Gigabit Ethernet cable connections between multiple computers through a router or switch. This will allow communication between two computers with close to no latency.



1. Install NewTekNDIToolsForMacOS or Windows

<https://ndi.tv/tools/#download-tools>

It is free but you have to register your email

Minimum System Requirements

NDI Tools

Microsoft Windows operating system (32-bit compatible; 64-bit recommended)

NDI Scan Converter requires Windows 8 or better along with a DirectX 11 compatible video card

NDI Virtual Input require Windows 7 or better

All other NDI Tools require Windows Vista or better

Mac-compatible versions of NDI Tools require Mac OS X or better

2. Unzip the download and there will be 5 installers PKGs.

You want to run the installer for

NDIVirtualInputApplication.pkg

Double click on the icon to install the package.

NDI Virtual Input

Designate an available NDI source as the video input for popular software applications that support a webcam. With NDI Virtual Input, NDI sources are recognized as standard Microsoft® Windows® video and audio sources, making it possible to elevate your video

[Home](#) > [Resources](#) > [OBS Studio Plugins](#) >



obs-ndi - NewTek NDI™ integration into OBS Studio 4.9.1

Palakis · Jun 1, 2017 · Featured

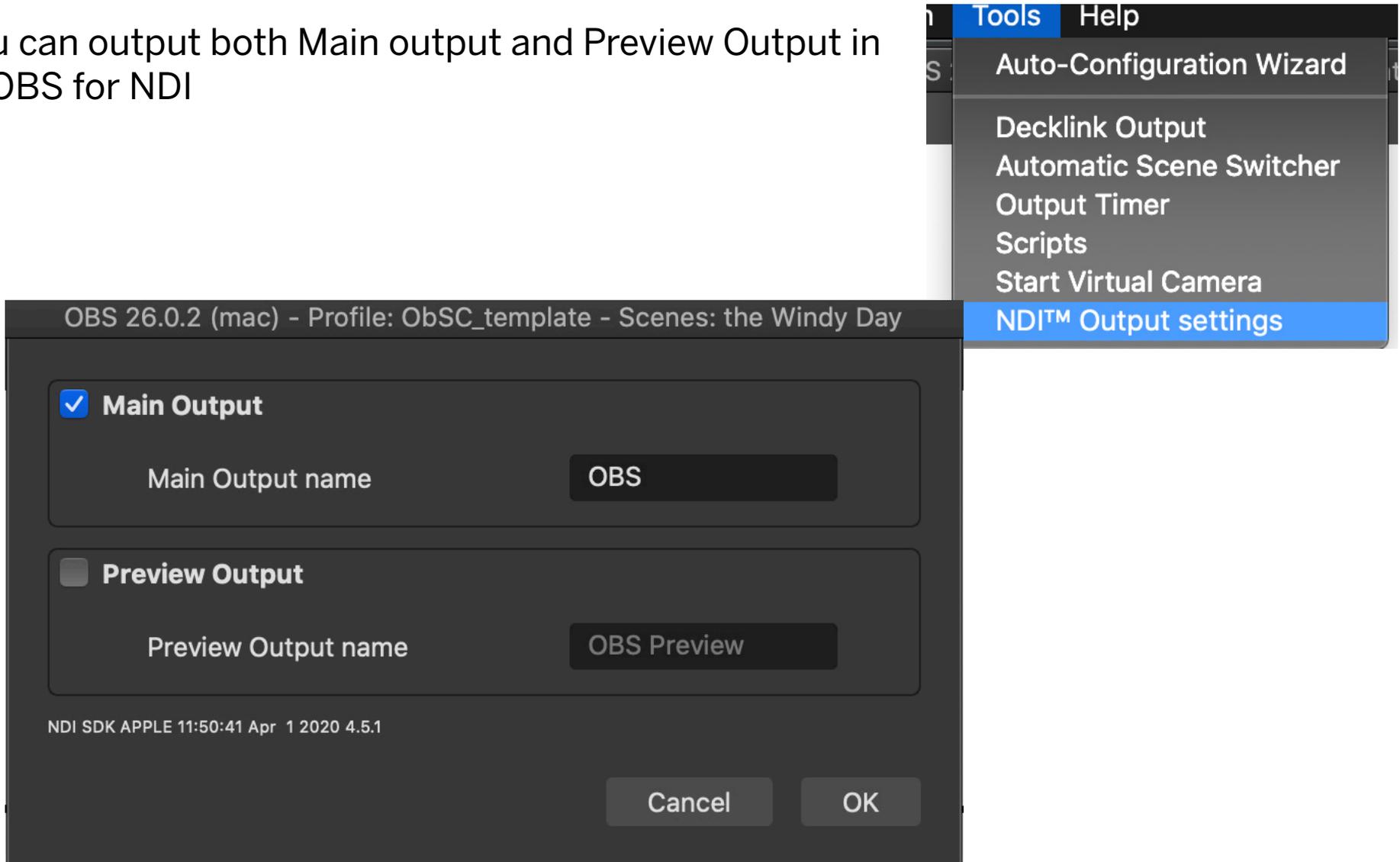
3. Now download the OBS-Plugin for your operating system:

<https://github.com/Palakis/obs-ndi/releases>

- [obs-ndi-4.9.0-macOS.pkg](#)
- [obs-ndi-4.9.0-Windows-Installer.exe](#)
- [obs-ndi-4.9.0-Windows.zip](#)
- [obs-ndi_4.9.1-1_amd64.deb](#)
- [Source code \(zip\)](#)
- [Source code \(tar.gz\)](#)

4. RESTART OBS and then look under the TOOLS menu and see if you have NDI OUTPUT

you can output both Main output and Preview Output in in OBS for NDI



5. IF NDI output not showing up in your tools menu AFTER RESTART:
we may need to install the NDI Runtime, you can find it here:

<https://slepin.fr/obs-ndi/runtime/>

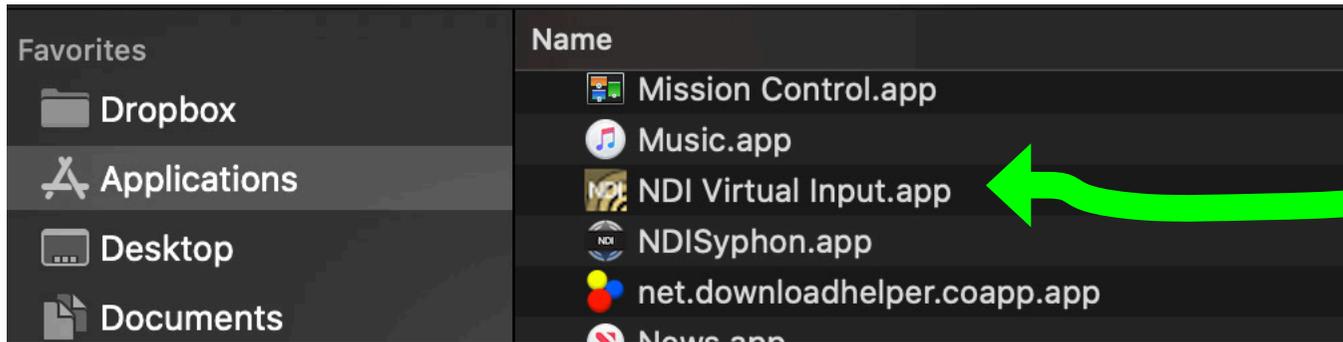
Once Installed RESTART and
then come back to the Zoom!



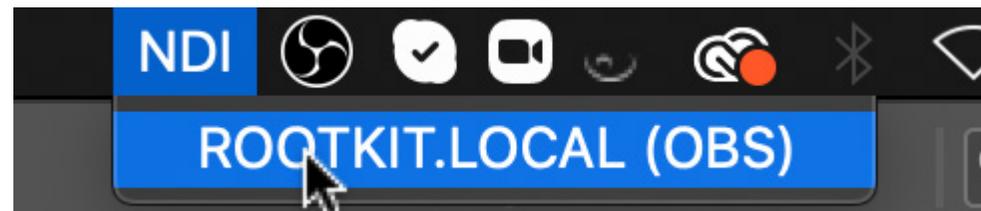
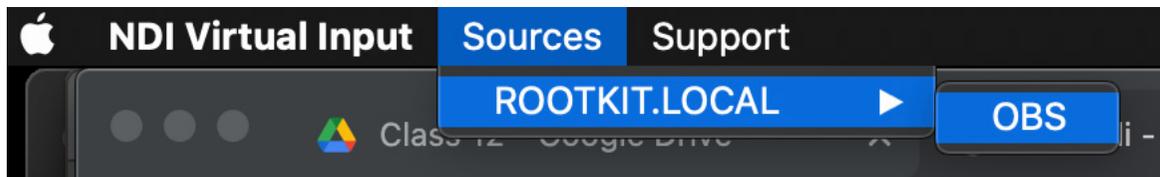
The screenshot shows a web browser window with the address bar containing "slepin.fr/obs-ndi/runtime/". Below the address bar, the page title is "Index of /obs-ndi/runtime". The main content is a directory listing table with columns for Name, Last modified, Size, and Description. The table lists several files including "Parent Directory", "ndi-runtime-3.8.0-Linux.sh", "ndi-runtime-3.8.0-Windows.exe", "ndi-runtime-3.8.0-macOS.pkg", "ndi-runtime-4.0.0-Linux.sh", "ndi-runtime-4.0.0-Windows.exe", "ndi-runtime-4.0.0-macOS.pkg", "ndi-runtime-4.5.1-Windows.exe", and "ndi-runtime-4.5.1-macOS.pkg".

	Name	Last modified	Size	Description
	Parent Directory			-
	ndi-runtime-3.8.0-Linux.sh	2018-12-22 00:01	36M	
	ndi-runtime-3.8.0-Windows.exe	2019-10-04 16:16	32M	
	ndi-runtime-3.8.0-macOS.pkg	2018-12-17 09:28	781K	
	ndi-runtime-4.0.0-Linux.sh	2019-09-13 01:03	20M	
	ndi-runtime-4.0.0-Windows.exe	2019-09-12 16:59	33M	
	ndi-runtime-4.0.0-macOS.pkg	2019-10-04 15:54	1.1M	
	ndi-runtime-4.5.1-Windows.exe	2020-04-01 06:47	10M	
	ndi-runtime-4.5.1-macOS.pkg	2020-04-01 18:53	1.4M	

6. MAC; Open the NDI Virtual Input Application from your MacApplications Folder
WINDOWS it is in a folder called 'NewTek>NDI 4 Tools>Virtual Input>NDI Virtual Input in your Programs folder

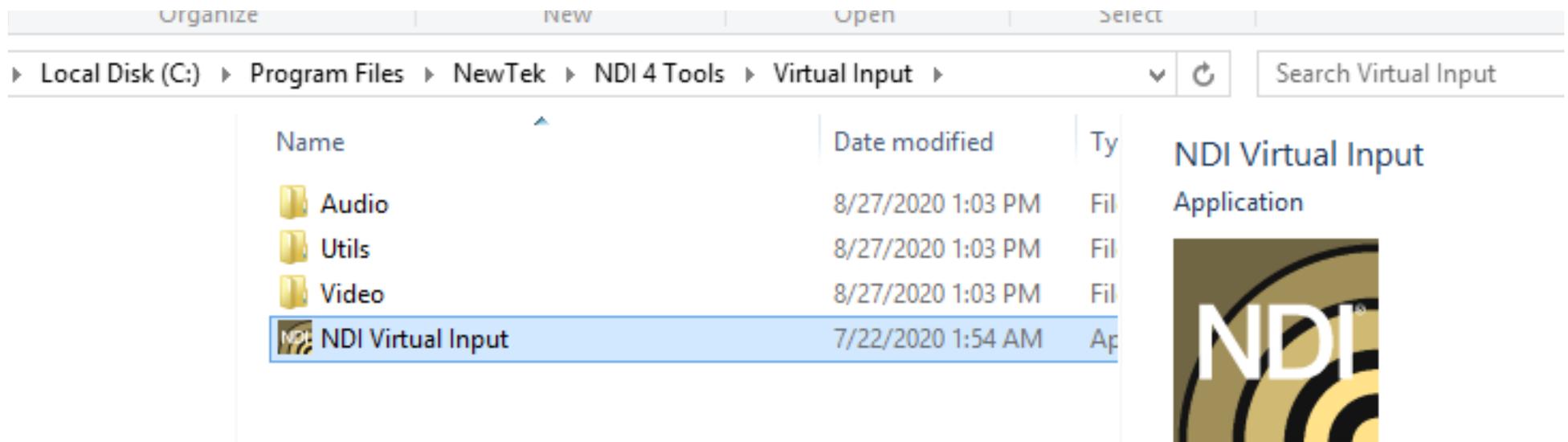


With your max patch running you will see your output from Max8 in your NDI Virtual Input Sources (note my computer's name here is called ROOTKIT)
SELECT YOUR OBS NDI Sender Source

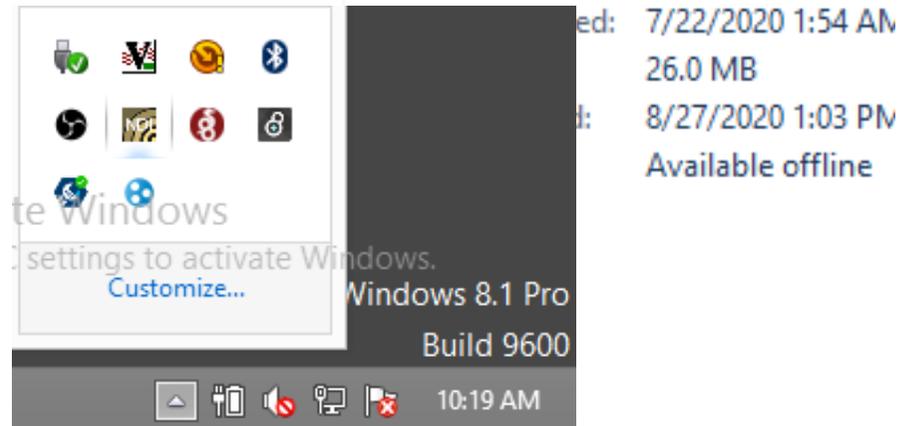


note: at the top of your computer screen you will see the NDI logo, you can choose your NDI stream here, also on Windows, NDI is pinned to the Taskbar!

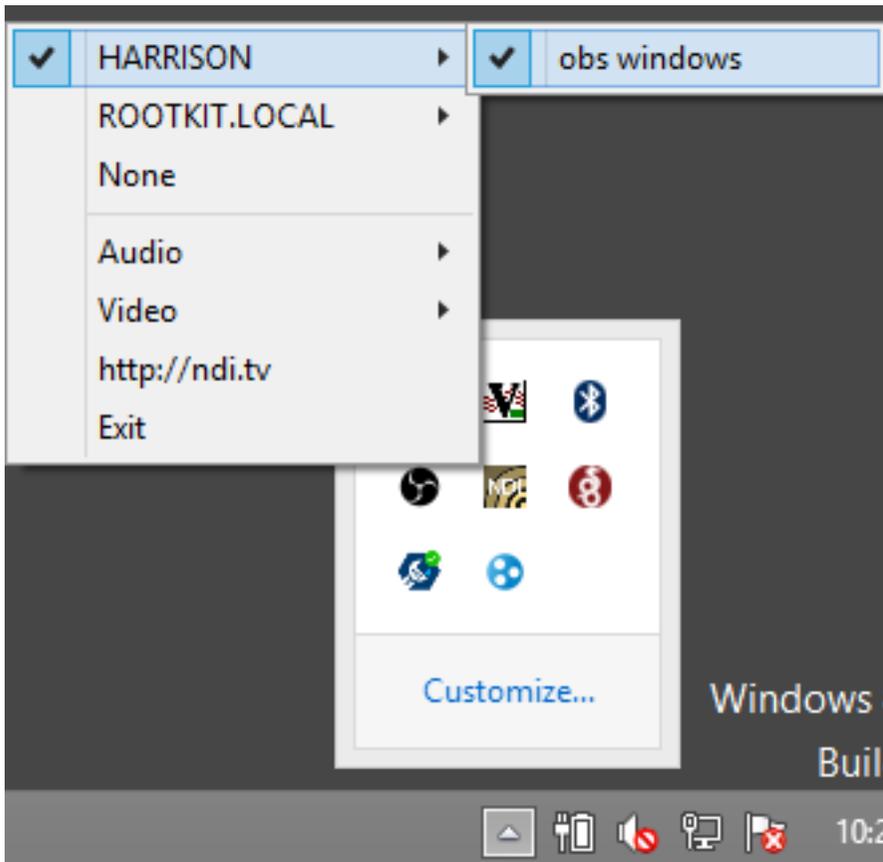
6. WINDOWS: Open the NDI Virtual Input Application
it is in a folder called 'NewTek>NDI 4 Tools>Virtual Input>NDI Virtual Input in your Programs folder



ONCE STARTED LOOK IN YOUR TASKBAR:

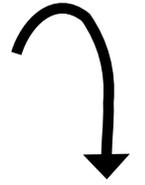


in Windows Right Click on the NDI Icon in the taskbar.
You will now see all of the NDI Inputs available on your network.
You can choose your NDI FEED from OBS



6. Now configure Zoom Preferences

in Audio Settings Enable Stereo Audio: by clicking on Advanced you may need to log into web portal of Zoom
add stereo audio settings: web portal > settings > meeting tab>



The image shows two overlapping screenshots of the Zoom settings interface. The top screenshot shows the 'Audio' settings page with two toggle switches for 'stereo' audio, both of which are turned on. The bottom screenshot shows the 'Settings' page with the 'Audio' tab selected. In the 'Audio' settings, the 'Use stereo audio' option is checked. A text box with the note 'this will greatly increase all attendee's CPU usage' is positioned over the 'Use stereo audio' option. A large black arrow points from a square box to the 'Enable stereo' checkbox. The 'Audio' tab is highlighted in blue in both screenshots.

Settings

- General
- Video
- Audio
- Share Screen
- Chat
- Accessibility

< Back

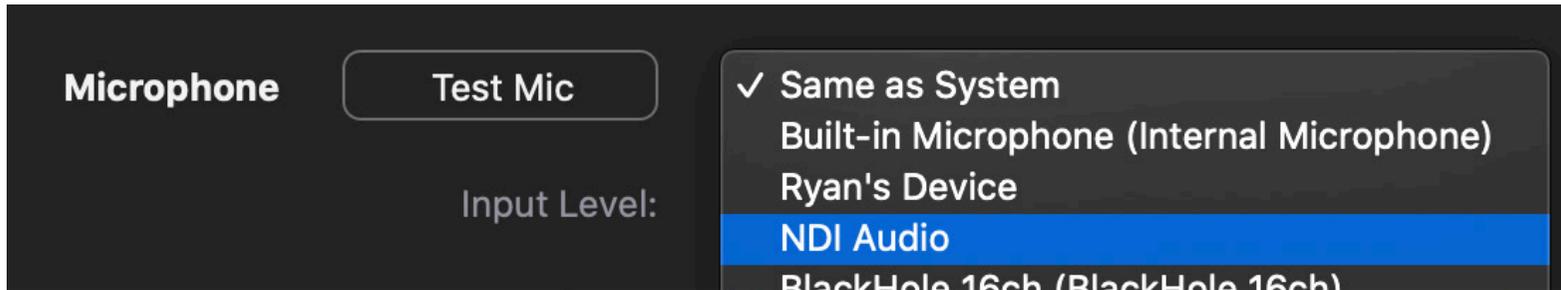
- Show in-meeting option to "Enable Original Sound" from microphone
- Use stereo audio

this will greatly increase all attendee's CPU usage

Echo Cancellation: Auto

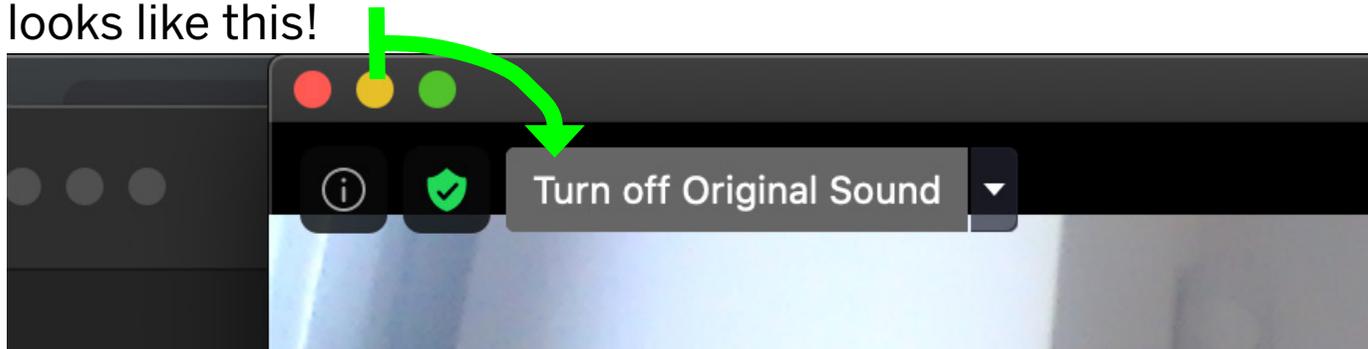
- Mute microphone
- Enable stereo
- Press and hold

in Audio Settings (Zoom Preferences) Choose NDI Audio
if it is not there, make sure NDI is installed and restart your computer



Turn Off Original sound

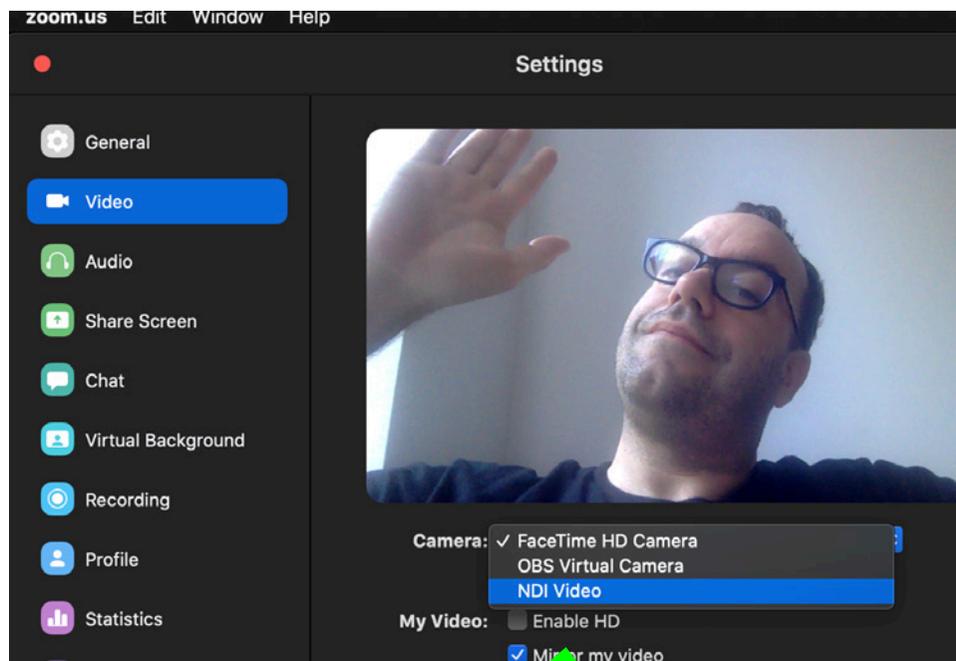
In our Zoom Meeting look at the TOP LEFT CORNER of the window and see if it looks like this!



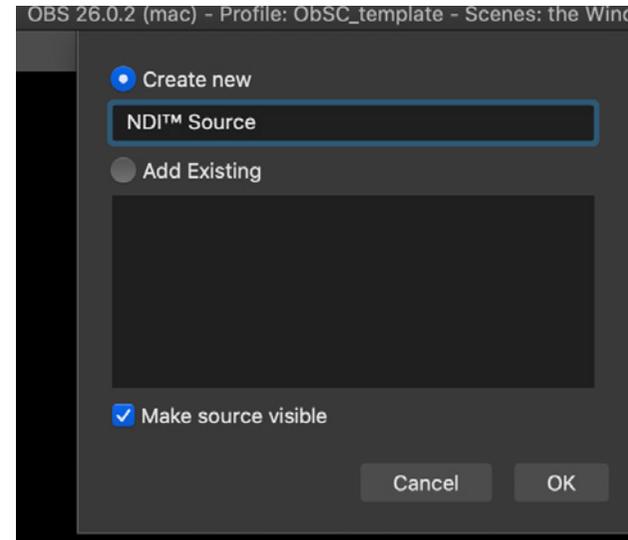
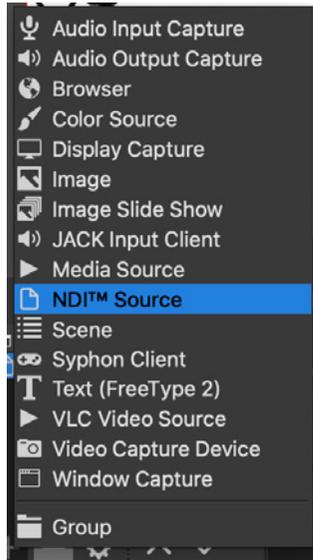
Zoom will normally drastically compress audio to save bandwidth but you can send and receive “original” uncompressed audio for maximum audio quality. We just have to enable it in our Zoom settings. more info here:

[https://support.zoom.us/hc/en-us/articles/115003279466-Enabling-option-to-serve-original-sound](https://support.zoom.us/hc/en-us/articles/115003279466-Enabling-option-to-preserve-original-sound)

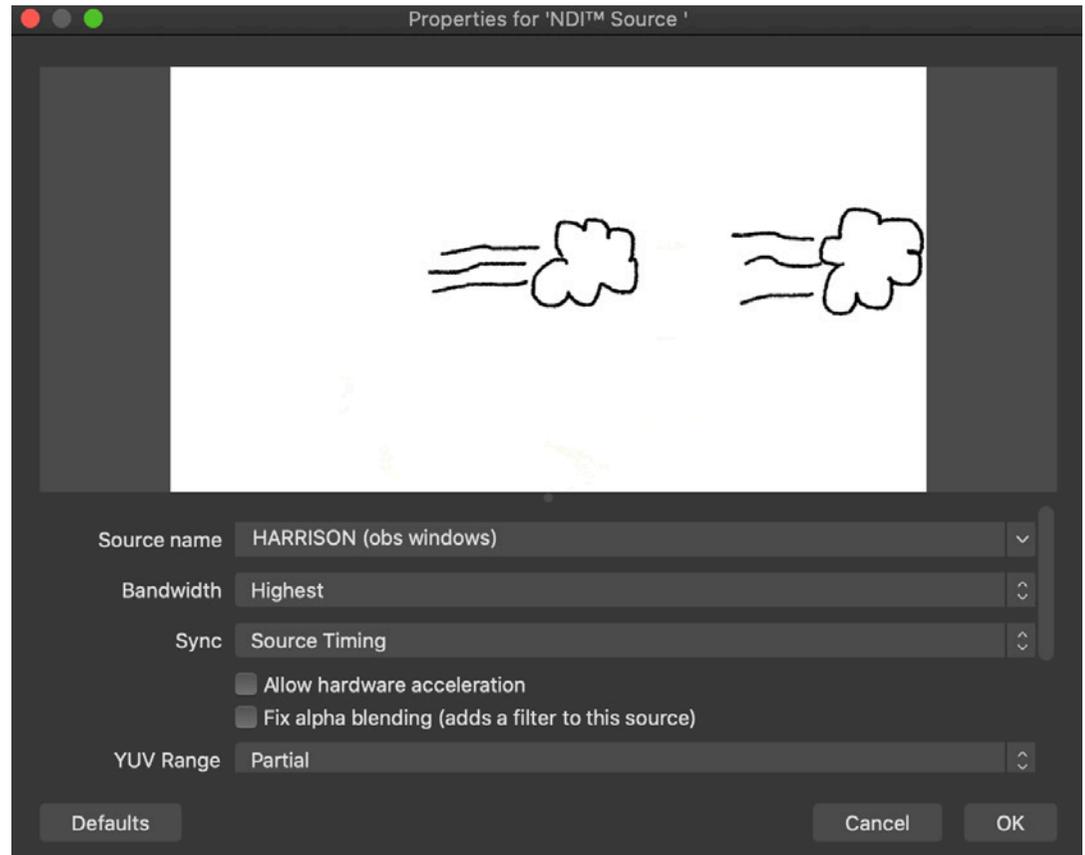
in Video Settings (Zoom Preferences) Choose NDI Video
if it is not there, make sure NDI is installed and restart your computer



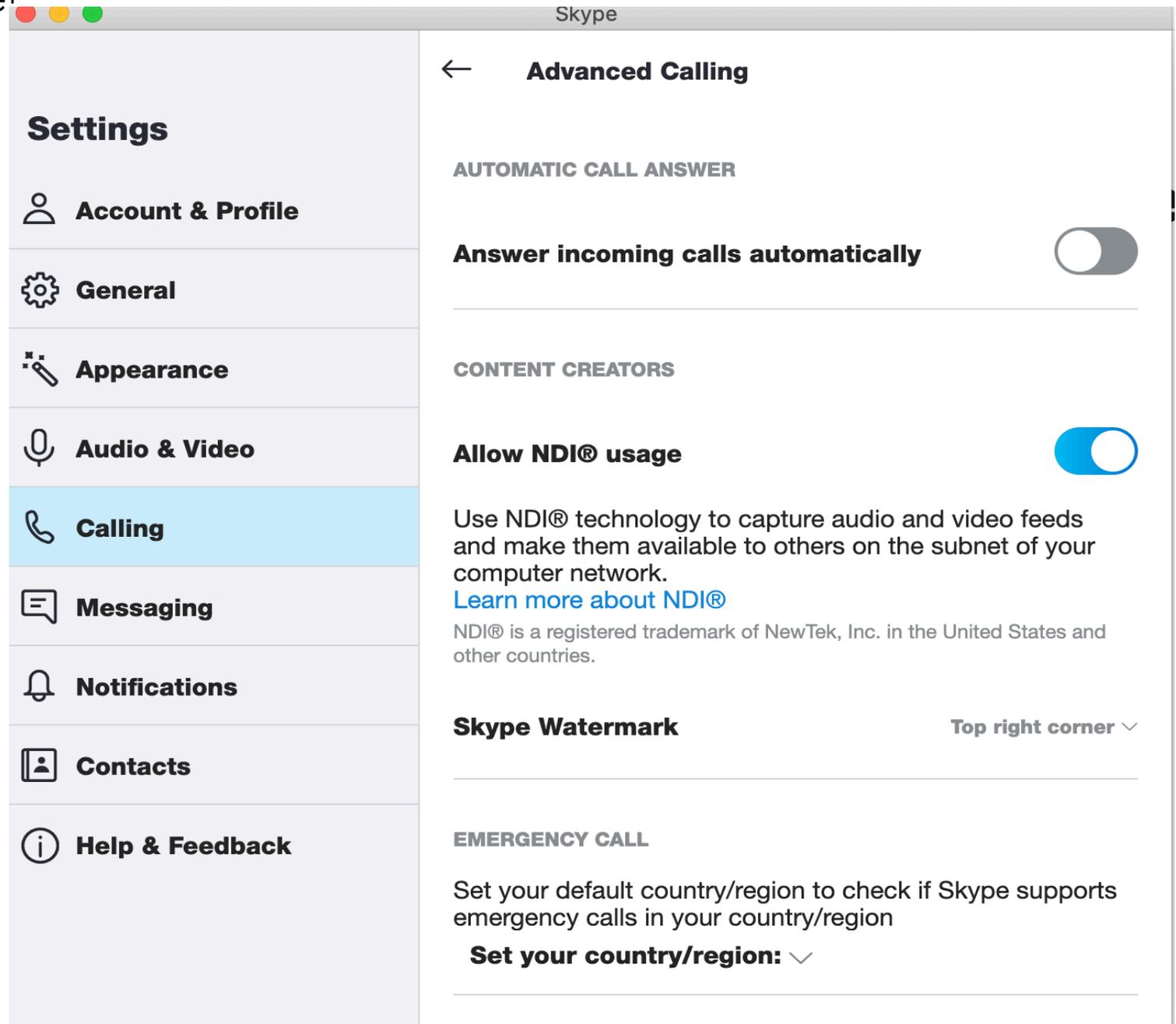
In OBS we can add NDI Sources!



Here my Windows computer, named Harrison, is sending NDI on my network to my Mac computer



You can receive Skype calls as an NDI Source in OBS
in **Settings > Calling** you can **Allow NDI Usage**.
and Restart Skype!



Skype

← **Advanced Calling**

AUTOMATIC CALL ANSWER

Answer incoming calls automatically

CONTENT CREATORS

Allow NDI® usage

Use NDI® technology to capture audio and video feeds and make them available to others on the subnet of your computer network.
[Learn more about NDI®](#)

NDI® is a registered trademark of NewTek, Inc. in the United States and other countries.

Skype Watermark Top right corner ▾

EMERGENCY CALL

Set your default country/region to check if Skype supports emergency calls in your country/region

Set your country/region: ▾

Settings

- Account & Profile
- General
- Appearance
- Audio & Video
- Calling**
- Messaging
- Notifications
- Contacts
- Help & Feedback