

Razer Blackshark (Razer BlackShark V2 Pro 2.4)

P HP X24ih (NVIDIA High Definition Audio)













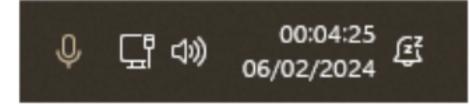








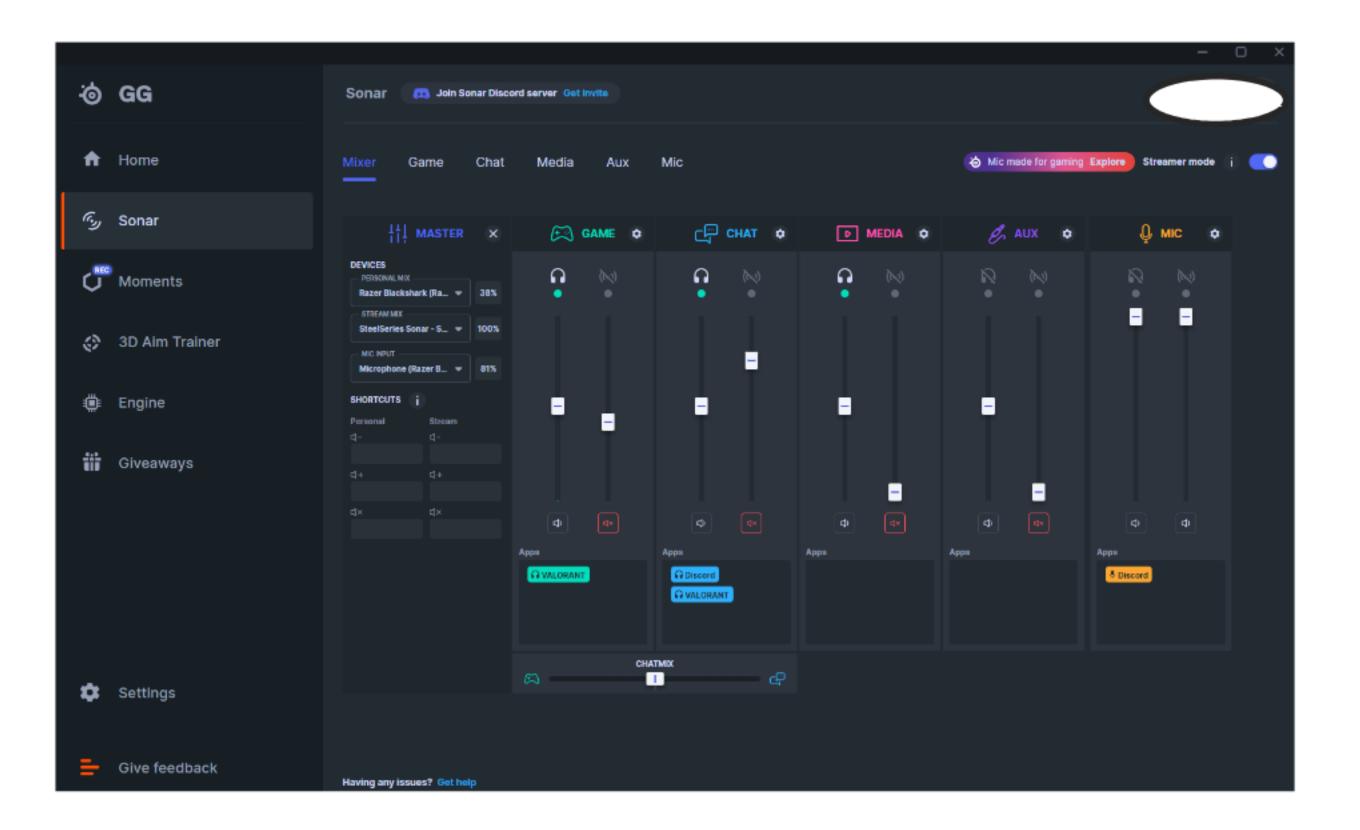




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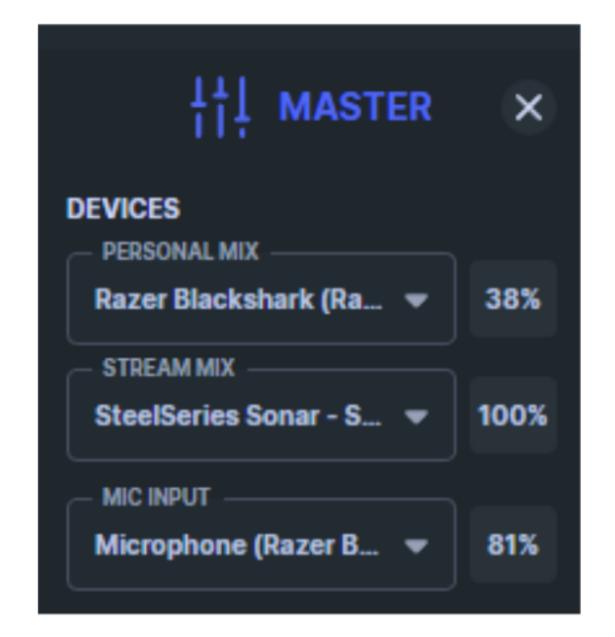


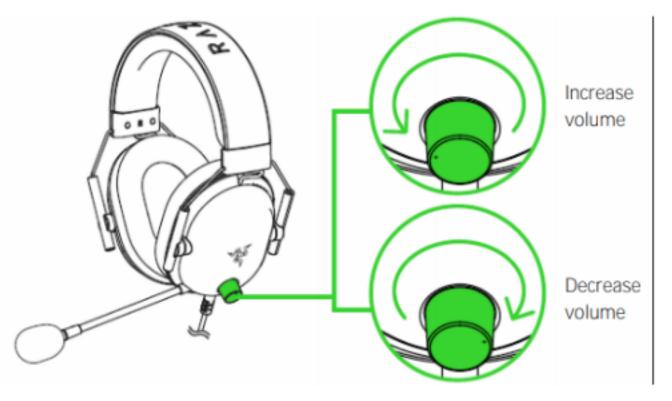
Juiput	
<b>4</b> 9)	Choose where to play sound Apps might have their own settings
	HP X24ih     NVIDIA High Definition Audio
	SteelSeries Sonar - Media SteelSeries Sonar Virtual Audio Device
	SteelSeries Sonar - Stream SteelSeries Sonar Virtual Audio Device
	SteelSeries Sonar - Gaming SteelSeries Sonar Virtual Audio Device
	SteelSeries Sonar - Chat SteelSeries Sonar Virtual Audio Device
	SteelSeries Sonar - Microphone SteelSeries Sonar Virtual Audio Device
	Razer Blackshark Razer BlackShark V2 Pro 2.4
	SteelSeries Sonar - Aux SteelSeries Sonar Virtual Audio Device
	Pair a new output device

Output









THERE IS NO INDICATOR ON MY SCREEN THAT IM ADJUSTING THE VOLUME

I DO IT BLINDLY
(THIS IS THE NEXT
ISSUE TO SOLVE - a
visual indicator on
my screen that
shows that I'm
adjusting my
headsets volume
idk)

# So obviously I had to search for a solution online

I started off by trying to improve the .bat files behind these icons



```
*headset.bat - Notepad
NIRCMD setdefaultsounddevice "SteelSeries Sonar - Gaming"
DevManView.exe /enable "Razer Blackshark"
net stop audiosrv
net stop AudioEndpointBuilder
net start audiosrv
net start AudioEndpointBuilder
DevManView.exe /enable "Razer Blackshark"
```

### set default sound device to razer

\*headset.bat - Notepad

File Edit View

DevManView.exe /enable "Razer Blackshark"

SWD\MMDEVAPI\{0.0.0...

SWD\MMDEVAPI\{0.0.0...

0x00000000

0x00000000

0x00000000

0x00000000

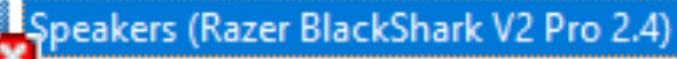
0x000000d0

0x000000d0

0x000000d0



File Edit View Options Help								
<ul> <li>• • • • • • • • • • • • • • • • • • •</li></ul>								
Device Name 💚	Manufacturer	Service	Device Type Code	Device Type Name	Device Instance ID	Location	Capabilities	Config Flag
Realtek PCIe GbE Family Controller	Realtek	rt68cx21	Net		PCI\VEN_10EC&DEV_81	@System32\drivers\pci	0x00000000	0x00000000
Realtek RTL8192EE Wireless LAN 802.11n PCI	Realtek Semiconductor	RTWIanE02	Net		PCI\VEN_10EC&DEV_81	@System32\drivers\pci	0x00000000	0x00000001
Remote Desktop Device Redirector Bus	Microsoft	rdpbus	System		ROOT\RDPBUS\0000		0x00000000	0x00000000
Root Print Queue	Microsoft		PrintQueue		SWD\PRINTENUM\Print		0x000000f0	0x00000000
Sonar APO	SteelSeries ApS		AudioProcessingObject		SWD\DRIVERENUM\{e83		0x000000d0	0x00000000
Speakers (Dubbing Virtual Device)	Microsoft		AudioEndpoint		SWD\MMDEVAPI\{0.0.0		0x000000d0	0x00000000
Speakers (Razer BlackShark V2 Pro 2.4)	Microsoft		AudioEndpoint		SWD\MMDEVAPI\{0.0.0		0x000000d0	0x00000000
🍕 Speakers (Razer BlackShark V2 Pro 2.4)	Microsoft		AudioEndpoint		SWD\MMDEVAPI\{0.0.0		0x000000d0	0x00000000
Speakers (Razer BlackShark V2 Pro)	Microsoft		AudioEndpoint		SWD\MMDEVAPI\{0.0.0		0x000000d0	0x00000000
Speakers (Razer BlackShark V2 Pro)	Microsoft		AudioEndpoint		SWD\MMDEVAPI\{0.0.0		0x000000d0	0x00000000
Speakers (Razer BlackShark V2 Pro)	Microsoft		AudioEndpoint		SWD\MMDEVAPI\{0.0.0		0x000000d0	0x00000000
🖷 Speakers (Razer BlackShark V2 Pro)	Microsoft		AudioEndpoint		SWD\MMDEVAPI\{0.0.0		0x000000d0	0x00000000
🖣 Steam Streaming Microphone	Valve Corporation Audio	SteamStreamingMicrop	MEDIA		ROOT\SteamStreaming		0x00000000	0x00000000
🐗 Steam Streaming Speakers	Valve Corporation Audio	SteamStreamingSpeakers	MEDIA		ROOT\SteamStreamingS		0x00000000	0x00000000
SteelSeries Apex 7 TKL	SteelSeries ApS	mshidkmdf	HIDClass		USB\VID_1038&PID_161	000b.0000.0003.002.000	0x00000080	0x00000020
RelSeries Apex 7 TKL	SteelSeries ApS	mshidkmdf	HIDClass		USB\VID_1038&PID_161	0002.0000.0000.014.000.0	0x00000080	0x00000000
SteelSeries Apex 7 TKL	SteelSeries ApS	mshidkmdf	HIDClass		USB\VID_1038&PID_161	000ь.0000.0003.002.000	0x00000080	0x00000020
SteelSeries Apex 7 TKL	SteelSeries ApS	mshidkmdf	HIDClass		USB\VID_1038&PID_161	0002.0000.0000.014.000.0	0x00000080	0x00000000
SteelSeries Device Factory	SteelSeries	ssdevfactory	System		ROOT\SYSTEM\0001		0x00000000	0x00000000
SteelSeries GG Component	SteelSeries ApS		SoftwareComponent		SWD\DRIVERENUM\{19f		0x000000d0	0x00000000
FSteelSeries GG Component	SteelSeries ApS		SoftwareComponent		SWD\DRIVERENUM\{19f		0x000000d0	0x00000000
SteelSeries Sonar - Aux (SteelSeries Sonar Virt	Microsoft		AudioEndpoint		SWD\MMDEVAPI\{0.0.0		0x000000d0	0x00000000



## Microsoft

Ouganital Datases Davids	Advanced Missa Desire		CCC14	DCILUTAL 10229-DEV 200	@Contact 271 delices and a si	000000000	00000000
StoreMI Bottom Device	Advanced Micro Device	rcbottom	SCSIAdapter	PCI\VEN_1022&DEV_43	@System32\drivers\pci	0x00000000	0x00000000
🐗 SteelSeries Sonar Virtual Audio Device	Microsoft	SteelSeries_Sonar_VAD	MEDIA	ROOT\MEDIA\0000		0x00000000	0x00000000
SteelSeries Sonar - Stream (SteelSeries Sonar V	Microsoft		AudioEndpoint	SWD\MMDEVAPI\{0.0.1		0x000000d0	0x00000000
SteelSeries Sonar - Stream (SteelSeries Sonar V	Microsoft		AudioEndpoint	SWD\MMDEVAPI\{0.0.0		0x000000d0	0x00000000
				SWD\MMDEVAPI\{0.0.1		0x000000d0	0x00000000

AudioEndpoint

300 Devices, 1 Selected

4 SteelSeries Sonar - Chat (SteelSeries Sonar Virt... Microsoft

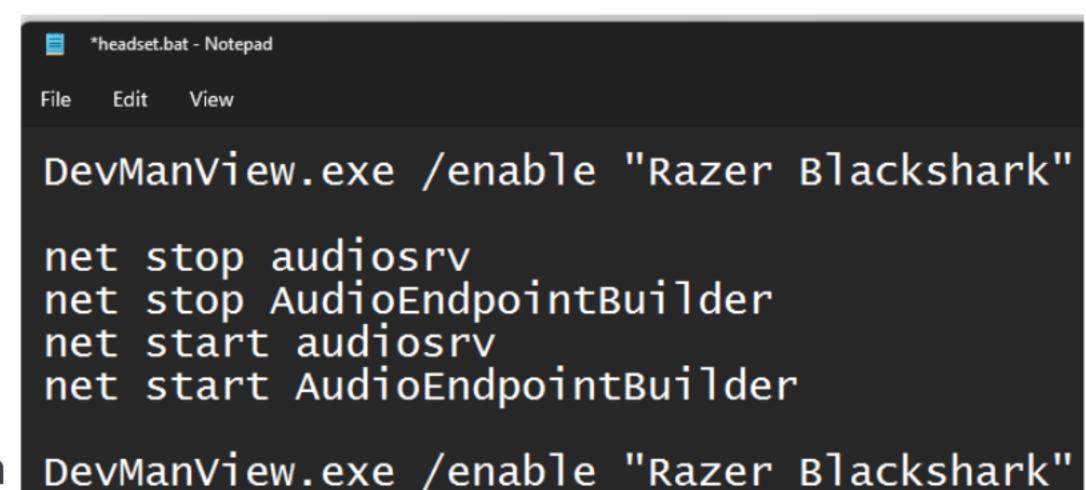
DevManView

NirSoft Freeware, https://www.nirsoft.net

set default sound device to razer

stop windows audio service start windows audio service

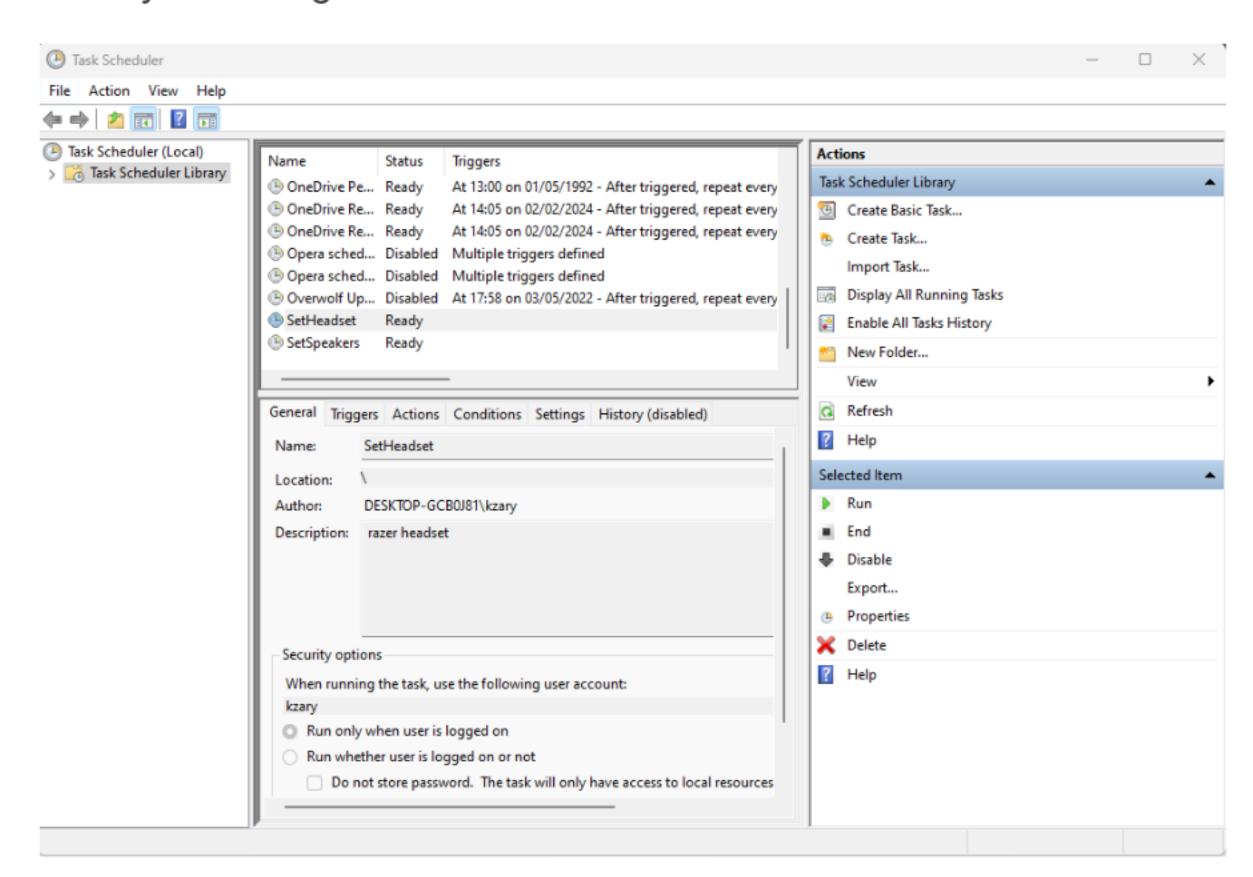
set default sound device to razer again



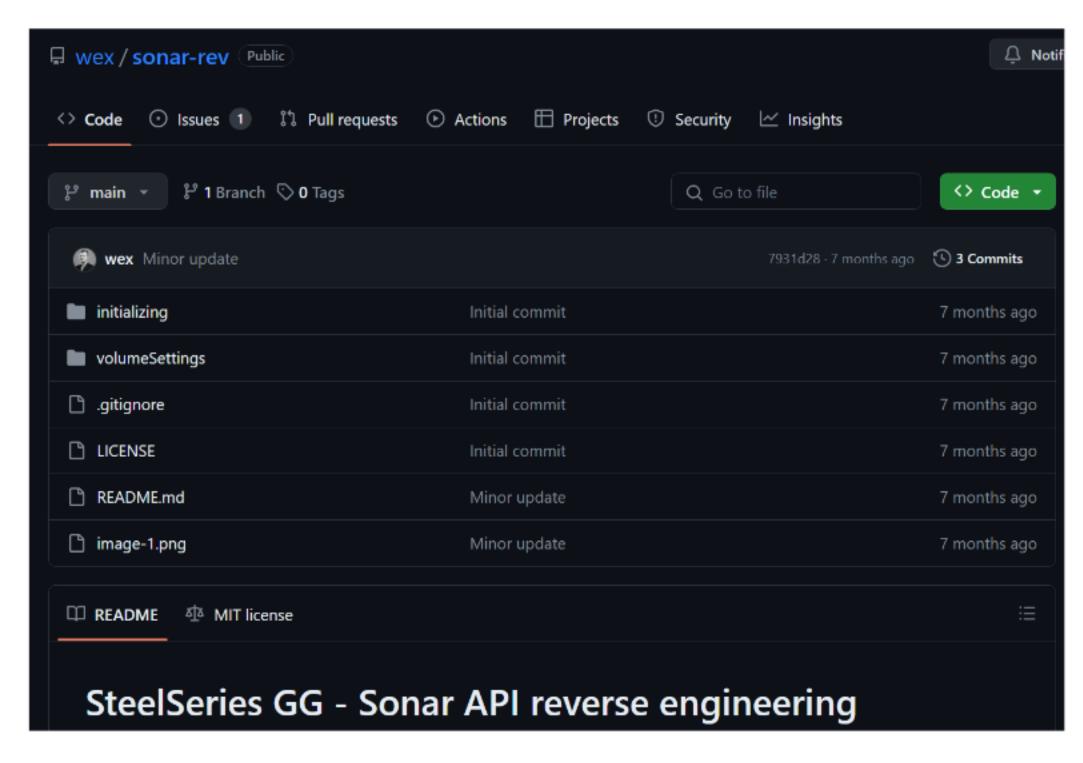
# VERYUNRELIABLE

#### SUNK COST FALLACY

sticking with a losing or failed venture because you've already invested a significant amount of time, money, or other resources that you can't get back.



# Discontent, I went back online to search for a solution



SONAR API REVERSE ENGINEERING???

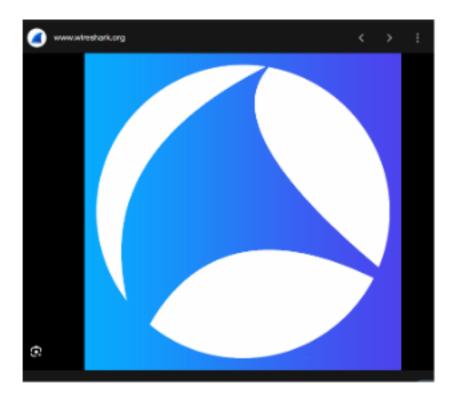
why does a local sound manager software need an API i wondered

# Mute/unmute classic-mode Game-channel curl -X PUT http://127.0.0.1:13108/volumeSettings/classic/game/Mute/true -H "Content-Length: 0" -H "Hc curl -X PUT http://127.0.0.1:13108/volumeSettings/classic/game/Mute/false -H "Content-Length: 0" -H "Hc curl -X PUT http://127.0.0.1:13108/volumeSettings/classic/game/Mute/false -H "Content-Length: 0" -H "Hc curl -X PUT http://127.0.0.1:13108/volumeSettings/classic/game/Mute/false -H "Content-Length: 0" -H "Hc curl -X PUT http://127.0.0.1:13108/volumeSettings/classic/game/Mute/false -H "Content-Length: 0" -H "Hc curl -X PUT http://127.0.0.1:13108/volumeSettings/classic/game/Mute/false -H "Content-Length: 0" -H "Hc curl -X PUT http://127.0.0.1:13108/volumeSettings/classic/game/Mute/false -H "Content-Length: 0" -H "Hc curl -X PUT http://127.0.0.1:13108/volumeSettings/classic/game/Mute/false -H "Content-Length: 0" -H "Hc curl -X PUT http://127.0.0.1:13108/volumeSettings/classic/game/Mute/false -H "Content-Length: 0" -H "Hc curl -X PUT http://127.0.0.1:13108/volumeSettings/classic/game/Mute/false -H "Content-Length: 0" -H "Hc curl -X PUT http://127.0.0.1:13108/volumeSettings/classic/game/Mute/false -H "Content-Length: 0" -H "Hc curl -X PUT http://127.0.0.1:13108/volumeSettings/classic/game/Mute/false -H "Content-Length: 0" -H "Hc curl -X PUT http://127.0.0.1:13108/volumeSettings/classic/game/Mute/false -H "Content-Length: 0" -H "Hc curl -X PUT http://127.0.0.1:13108/volumeSettings/classic/game/Mute/false -H "Content-Length: 0" -H "Hc curl -X PUT http://127.0.0.1:13108/volumeSettings/classic/game/Mute/false -H "Content-Length: 0" -H "Hc curl -X PUT http://127.0.0.1:13108/volumeSettings/classic/game/Mute/false -H "Content-Length: 0" -H "Hc curl -X PUT http://127.0.0.1:13108/volumeSettings/classic/game/Mute/false -H "Content-Length: 0" -H "Hc curl -X PUT http://127.0.0.1:13108/volumeSettings/classic/game/Mute/false -H "Content-Length: 0" -H "Hc curl -X PUT http://127.0.0.1:13108/volumeSettings/classic/game/Mute/false -H "Content-Length: 0" -H "Hc curl -X PUT http://127.0.0.1:131

# LOCAL ADDRESS

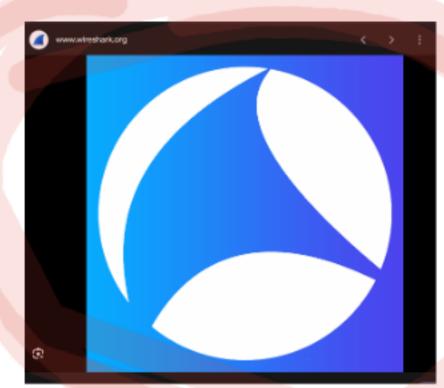


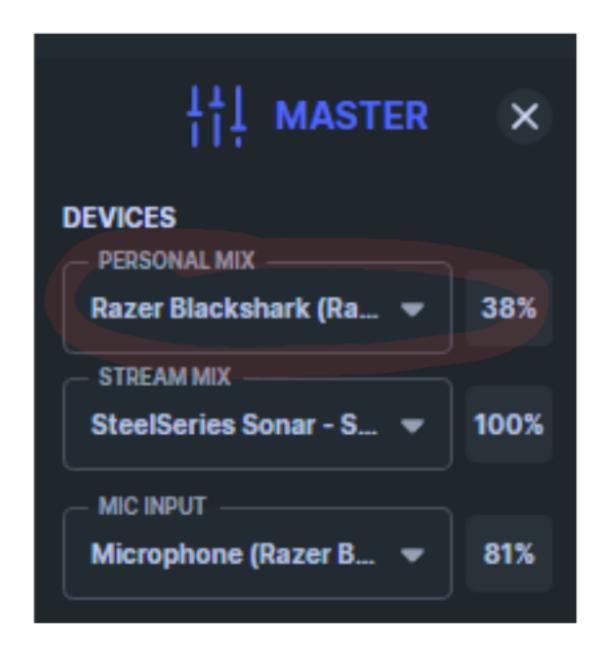


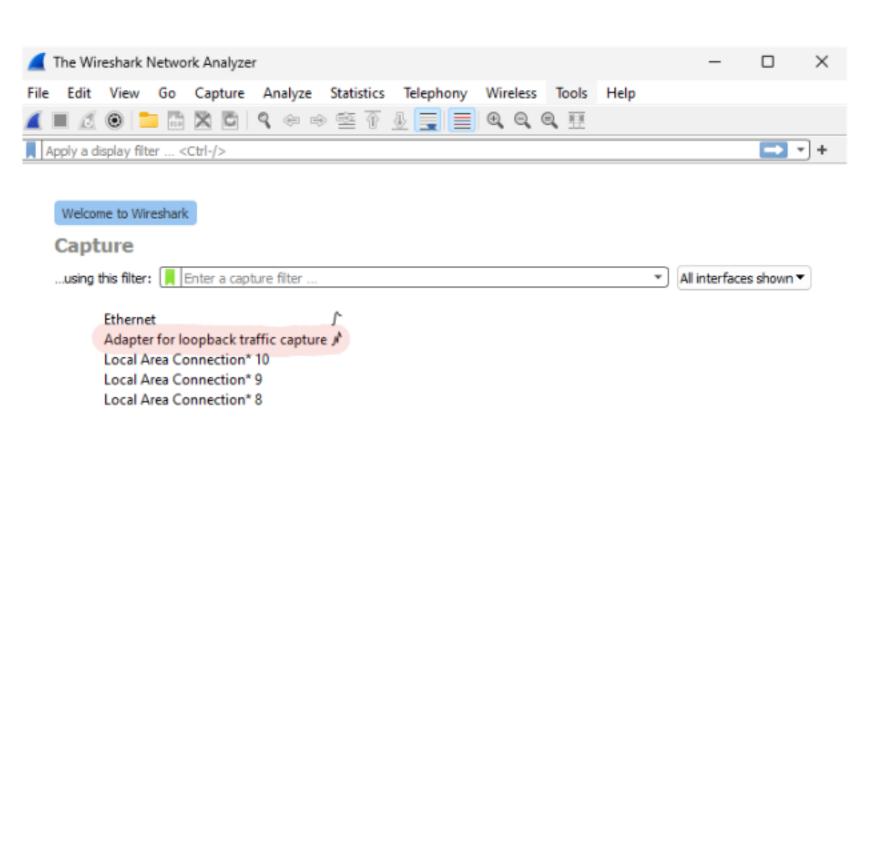












#### Learn

User's Guide · Wiki · Questions and Answers · Mailing Lists · SharkFest · Wireshark Discord · Donate

You are running Wireshark 4.0.7 (v4.0.7-0-g0ad 1823cc090). You receive automatic updates.

Ready to load or capture No Packets Profile: Default

HTTP	631 PUT /streamRedirections/isStreamMonitoringEnabled/false HTTP/1.1
TCP	44 50454 → 54395 [ACK] Seq=37194 Ack=13494 Win=2147840 Len=0
HTTP/JSON	188 HTTP/1.1 200 OK , JavaScript Object Notation (application/json)
TCP	44 54395 → 50454 [ACK] Seq=13494 Ack=37338 Win=2123776 Len=0
HTTP/JSON	824 POST /analytics/track HTTP/1.1 , JavaScript Object Notation (application/json)
TCP	44 50454 → 54399 [ACK] Seq=3610 Ack=6337 Win=2154752 Len=0
HTTP	136 HTTP/1.1 200 OK



right click and click follow TCP Stream

```
{"engineDeviceId":null, "engineDeviceName":null, "streamRedirectionId": "monitoring", "deviceId": "{0.0.0.00000000}. {7e94676c-0d4c-4052-a1b3-110ae9340270}", "status": [{"role": "chatCaptu re", "isEnabled":false}, {"role": "chatRender", "isEnabled":true}, {"role": "media", "isEnabled":true}, {"role": "aux", "isEnabled":false}], "isRunning":true} PUT /streamRedirections/monitoring/deviceId/%7B0.0.0.00000000%7D.%7B2e1dcd3d-2c1a-4a26-a489-bb2c34ada43a%7D HTTP/1.1

Host: 127.0.0.1:50454
```

{"engineDeviceId":null, "engineDeviceName":null, "streamRedirectionId": "monitoring", "deviceId": "{0.0.0.00000000}. {2e1dcd3d-2c1a-4a26-a489-bb2c34ada43a}", "status": [{"role": "chatCapture", "isEnabled":false}, {"role": "chatRender", "isEnabled":true}, {"role": "media", "isEnabled":true}, {"role": "aux", "isEnabled":false}], "isRunning":true}}
PUT /streamRedirections/monitoring/deviceId/%7B0.0.0.000000000%7D.%7B7e94676c-0d4c-4052-a1b3-110ae9340270%7D HTTP/1.1

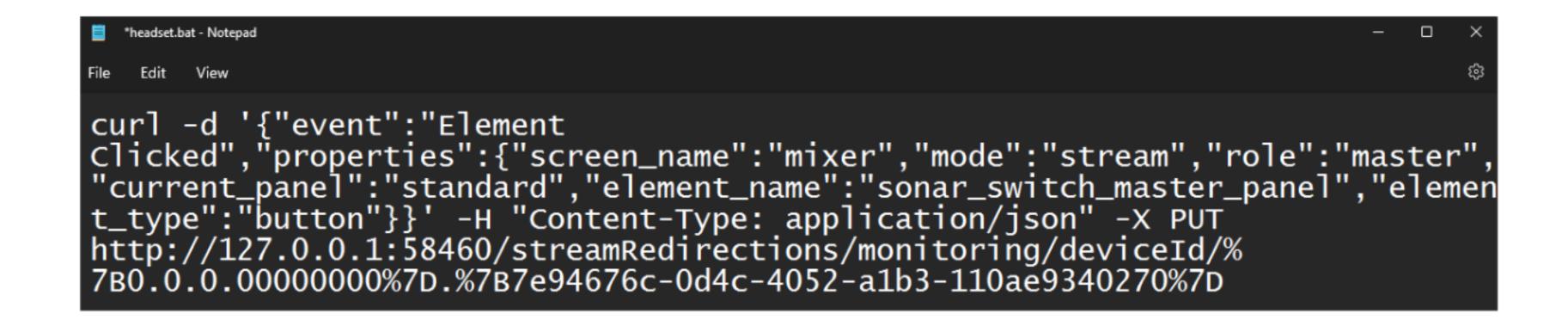
curl -X PUT -d argument=value -d argument2=value2 http://localhost:8080

curl PUT ARGUMENTS ADDRESS

curl PUT {json} 127.0.0.1:50454/monitoring....

E:\Documents\NIRCMD\Development>curl -d '{"event":"Element Clicked","properties":{"screen\_name":"mixer","mode":"stream",
"role":"master","current\_panel":"standard","element\_name":"sonar\_switch\_master\_panel","element\_type":"button"}' -H "Cont
ent-Type: application/json" -X PUT http://127.0.0.1:58460/streamRedirections/monitoring/deviceId/%7B0.0.0.00000000%7D.%7
B2e1dcd3d-2c1a-4a26-a489-bb2c34ada43a%7D"""

WORKS



# PYTHON DEVELOPMENT

```
immerHeadset.py - E:\Documents\NIRCMD\simmerHeadset.py (3.10.0)

immerHeadset.py (3.10.0)

immerHeadset.py - E:\Documents\NIRCMD\simmerHeadset.py - E:\Documents\NIRCMD\s
File Edit Format Run Options Window Help
     mport subprocess
    mport json, time
  cmd command = 'curl https://127.0.0.1:6327/subApps -k'
 result = subprocess.run(cmd_command, shell=True, stdout=subprocess.PIPE, stderr=subprocess.PIPE, universal_newlines=True)
 json_string = str(result.stdout)
 data = json.loads(json_string)
 port = str(data['subApps']['sonar']['metadata']['webServerAddress'])
   print(port)
 cmd_prefix = """
  curl -d '{"event": "Element Clicked", "properties": {"screen_name": "mixer", "mode": "stream", "role": "master", "current_panel": "standard", "element_name": "sonar_switch_master_panel", "element_type":
headset_cmd = (cmd_prefix + port + "/streamRedirections/monitoring/deviceId/%7B0.0.0.00000000%7D.%7B7e94676c-0d4c-4052-alb3-110ae9340270%7D").strip()
speaker_cmd = (cmd_prefix + port + "/streamRedirections/monitoring/deviceId/%7B0.0.0.00000000%7D.%7B2e1dcd3d-2c1a-4a26-a489-bb2c34ada43a%7D").strip()
 activate headset = subprocess.Popen(headset cmd, shell=True, stdout=subprocess.PIPE, stderr=subprocess.STDOUT)
```































