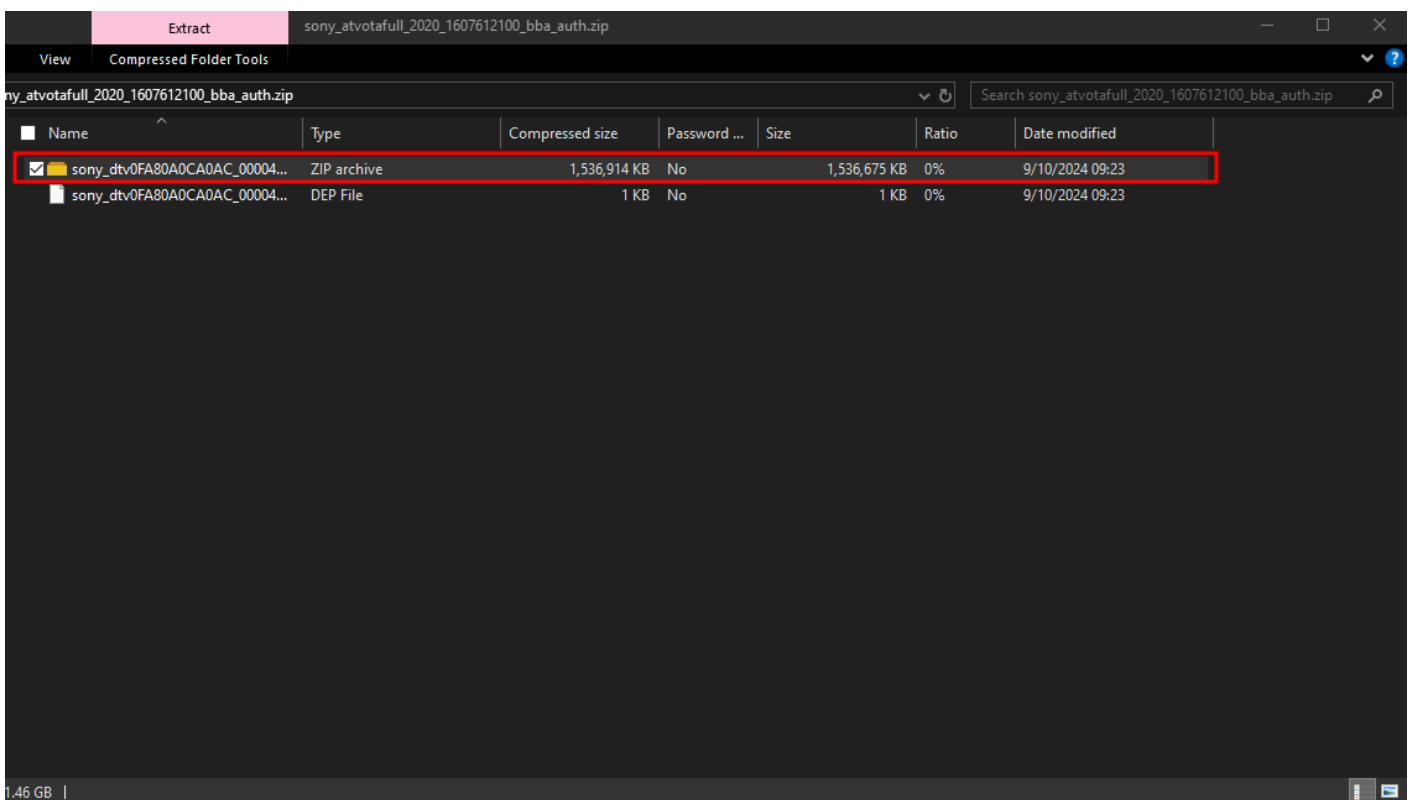


# Getting ready to extract the firmware

## Extract the firmware zip files

Before we can do anything, we need to extract the "payload.bin" file from the .zip file we downloaded for the firmware.

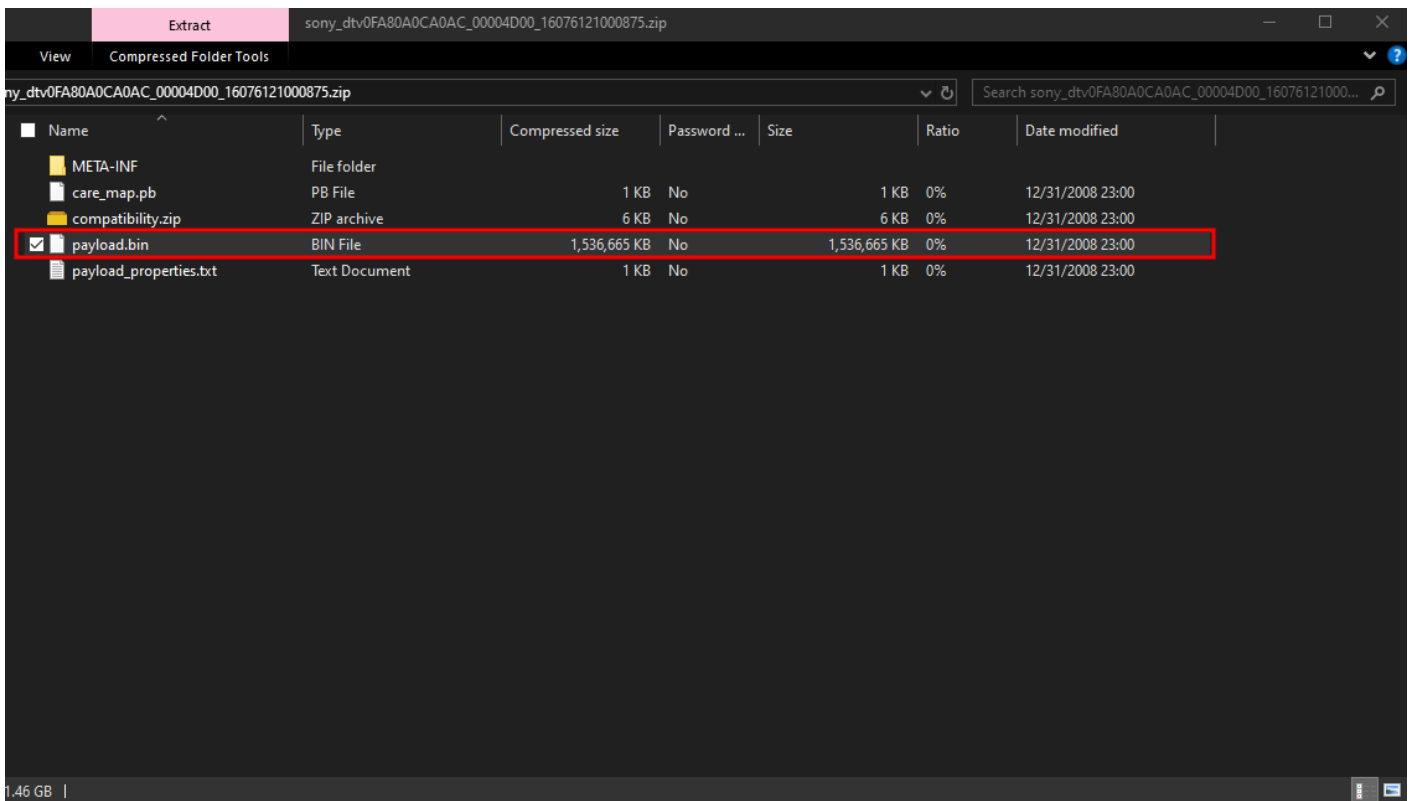
The firmware that was downloaded should be named something like "sony\_atvotafull" at the start. Now we need to extract the actual firmware file, open the .zip file and extract the other .zip file in it which is named something like "sony\_dtv" at the start with a bunch of numbers and letters after that.



Now if you want you can delete the original .zip file which for me was named "sony\_atvotafull\_2020\_1607612100\_bba\_auth.zip" should look similar to that.

Let's make a folder called output or firmware so we can be organized.

Now we can open the new .zip archive and extract the "payload.bin" file which is the actual firmware file. Extract it to the output folder we made earlier.



Now we can delete the 2nd .zip file which was for me "sony\_dtv0FA80A0CA0AC\_00004D00\_16076121000875.zip" but it should look similar for you as well.

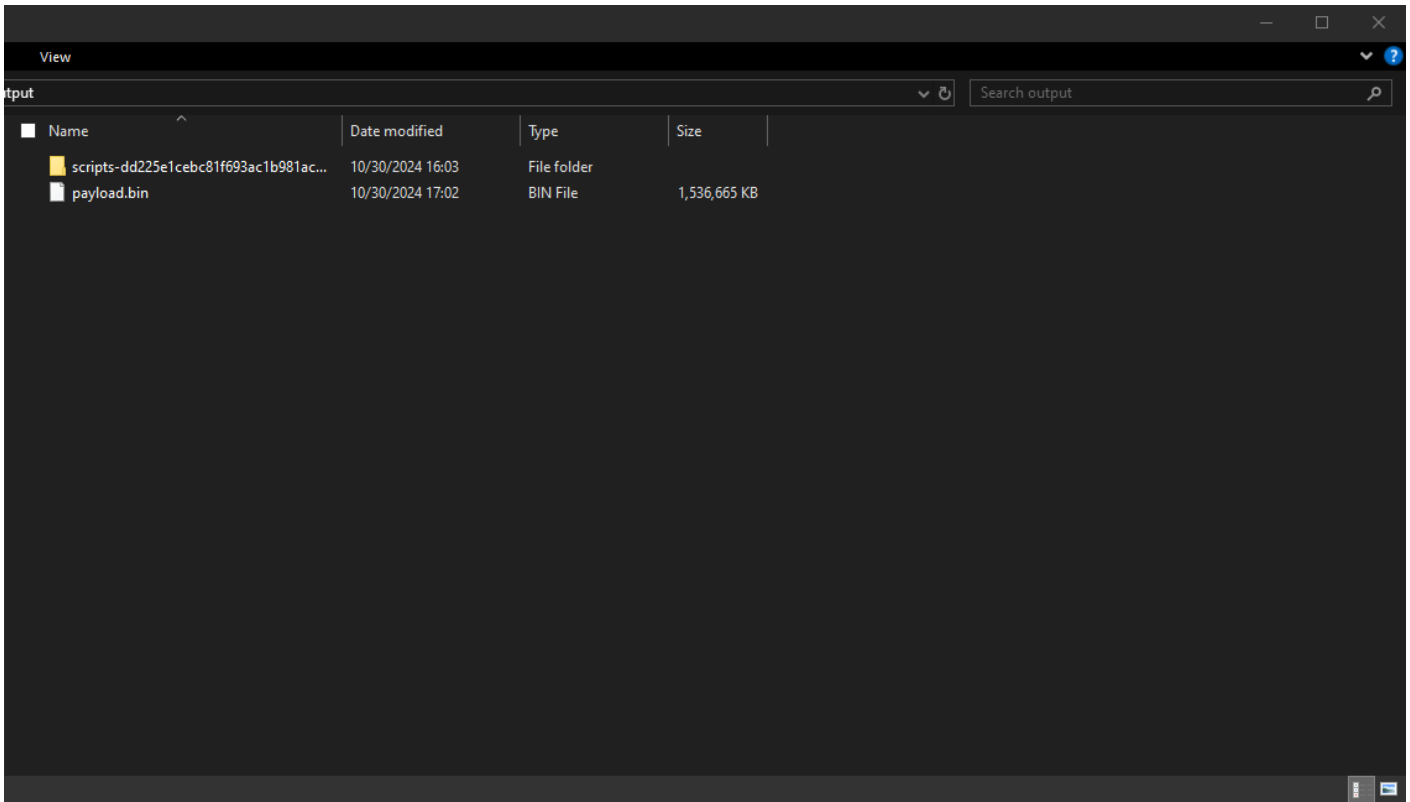
## Getting the scripts ready

Now the scripts we downloaded earlier from GitHub, let's now extract that to the output folder as well. It should be named:

"scripts-dd225e1cebc81f693ac1b981ac853cf819321b49.zip"

We can also delete the scripts .zip file we just extracted since we extracted it to our output folder already.

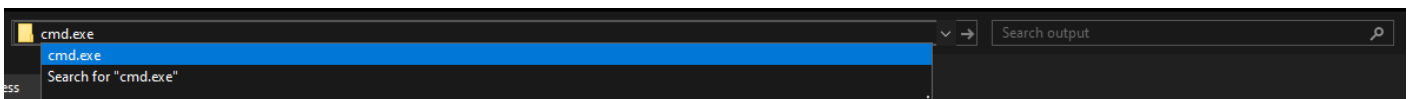
This is what it should look like now in our folder.



## Getting the python modules installed and our VENV ready

If you open the folder that we made which we named output or firmware, in the top section where it says "output" or "firmware", click in it and type cmd.exe and press enter.

That should bring up a Command prompt in our current directory which is our folder we made.



Now we need to install some pip modules for the scripts we downloaded to work. So were going to make a "venv" (A Virtual Environment) so we don't need to install the packages globally.

So in the command prompt window type as follows: `python -m venv venv`

Then press enter and it should have made a new folder called "venv" in our folder which is great.

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19045.5011]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Axzerax\Desktop\output>python -m venv venv

C:\Users\Axzerax\Desktop\output>
```

Now we need to activate our venv, so we can type in the command prompt window as follows:

```
venv\Scripts\activate.bat
```

Then press enter, and you'll notice now it says (venv) on the left side to show you it's activated.

```
C:\Users\Axzerax\Desktop\output>venv\Scripts\activate.bat

(venv) C:\Users\Axzerax\Desktop\output>
```

Now we need to actually install those modules I was talking about, so type as follows: `pip install`  
`protobuf==3.20.1 six`

```
(venv) C:\Users\Axzerax\Desktop\output>pip install protobuf==3.20.1 six
Collecting protobuf==3.20.1
  Using cached protobuf-3.20.1-py2.py3-none-any.whl.metadata (720 bytes)
Collecting six
  Using cached six-1.16.0-py2.py3-none-any.whl.metadata (1.8 kB)
Using cached protobuf-3.20.1-py2.py3-none-any.whl (162 kB)
Using cached six-1.16.0-py2.py3-none-any.whl (11 kB)
Installing collected packages: six, protobuf
Successfully installed protobuf-3.20.1 six-1.16.0

[notice] A new release of pip is available: 24.2 -> 24.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip

(venv) C:\Users\Axzerax\Desktop\output>
```

Once that finishes we are ready to extract the firmware.

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