Guide for Setting Up Bit-Streaming from Xonar HDAV
and using Arcsoft Codecs in Media Portal

I created this guide hoping others could benefit from the hours (days?) of research and experimentation. What follows are instructions detailing how I've been able to configure my HTPC to playback video files within Media Portal using Arcsoft's TMT3 Codecs and bit-stream HD audio formats to a Xonar HDAV.

There are five major sections to this guide.
1. Install TMT3 and register the audio renderer.
2. Install and configure HD Pack 2.3
3. Install and configure ffdshow
4. Configure filter merits using RadLight Filter Manager
5. Configure Media Portal

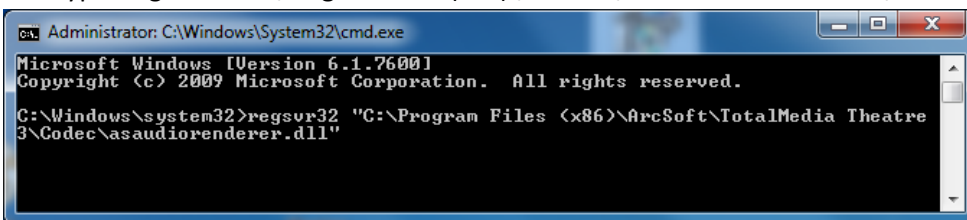Before beginning you need to find and download the following programs
- HD Pack 2.3. This contains the Arcsoft Demuxer and Arcsoft Video Decoder. The files are the same as in TMT3. However, this program installs the files in different locations and does something different when registering them. I have not gotten the files directly from the TMT3 installation to work. I use this program and the files work. I don't know why it works - it just does. HD Pack 2.3 contains other codecs. I only use the Arcsoft files, because I own that software. I'm only using HD Pack 2.3 because it installs and registers the Arcsoft files in a manner that can be used in Media Portal.
- ffdshow. I downloaded and installed "ffdshow_rev3370_20100421_xxl"
- RadLight Filter Manager. This program is an easy way to change the merits DirectShow uses when picking filters.

Optionally, you can also download GraphStudio from Monogram. This program allows you to create DirectShow graphs and playback media files. It can be beneficial for troubleshooting codec and DirectShow filter problems, but is not required for setting up bit-streaming from the Xonar.

Install TMT3 and Register the Audio Renderer – based on Jaybeam's Post

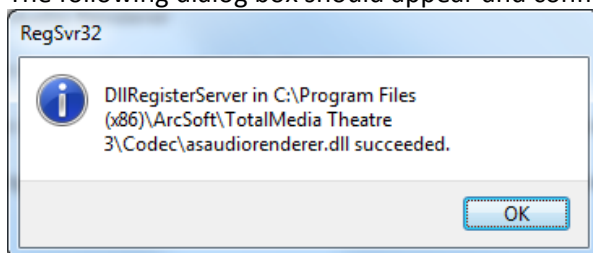If needed, install TMT3. Then register the Arcsoft Audio Renderer by:
- Press "Start" and type cmd in the search box. Launch the cmd prompt as Administrator by right clicking on cmd.
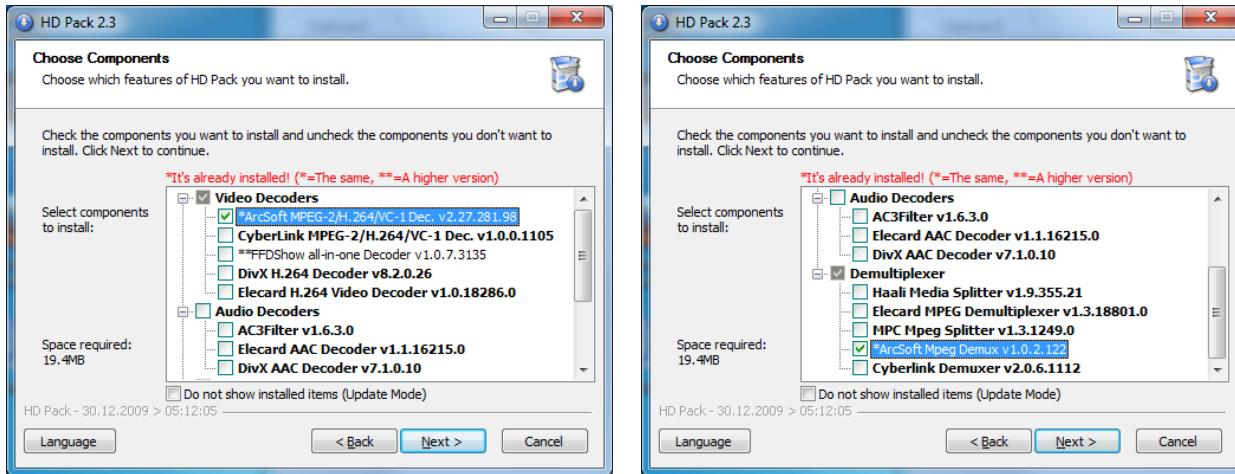- Type: regsvr32 "C:\Program Files (x86)\ArcSoft\TotalMedia Theatre 3\Codec\ asaudiorenderer.dll"

The following dialog box should appear and confirm the audio renderer is registered.
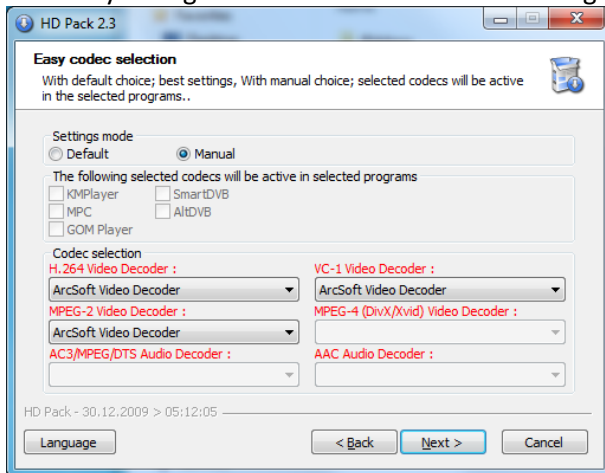
Install and configure HD Pack 2.3

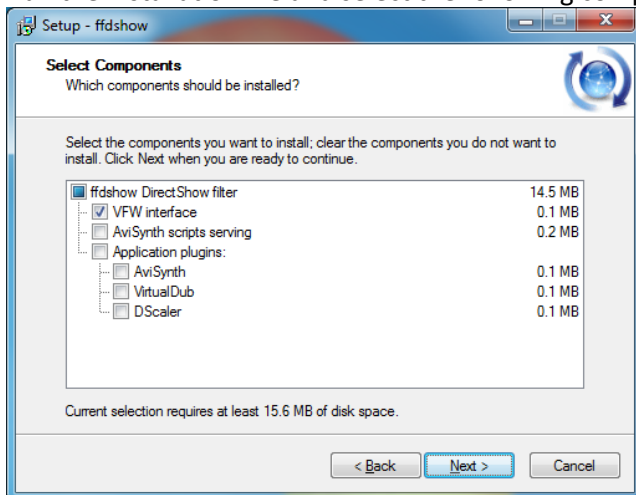Run HD Pack 2.3. Choose the Arcsoft Video Decoder, de-select the audio decoders, and choose the Arcsoft Demuxer.

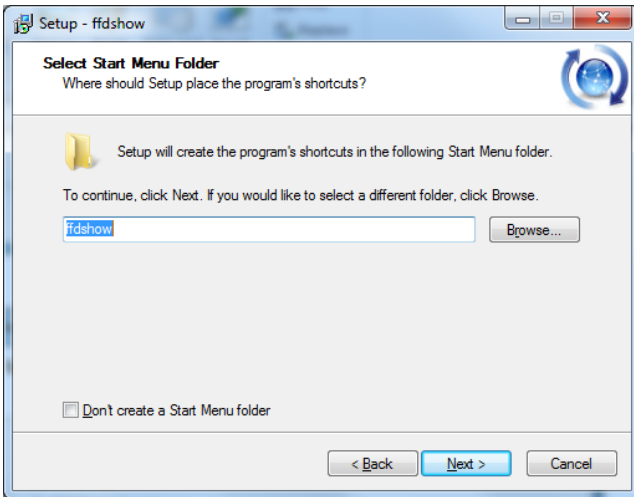Manually configure the codec selection according to the following.

Press next and allow HD Pack 2.3 to complete the installation.

Install and Configure ffdshow – based on Jaybeam's Post
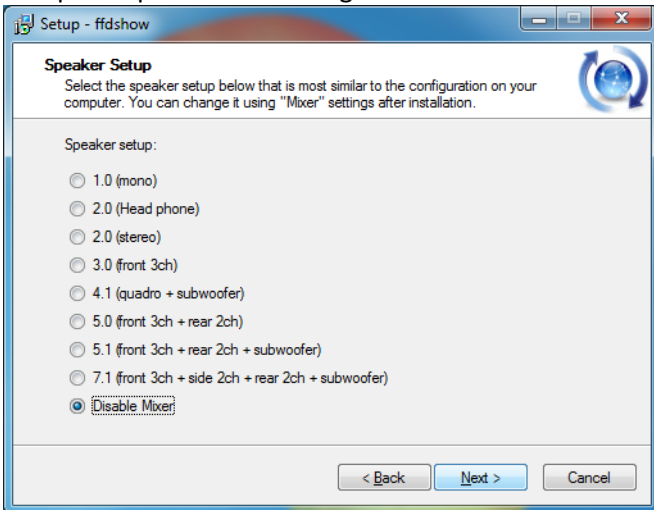
Run the installation file and select the following components:
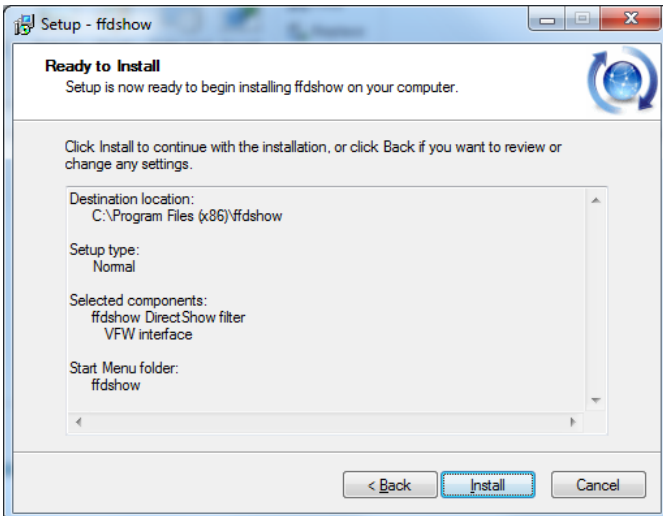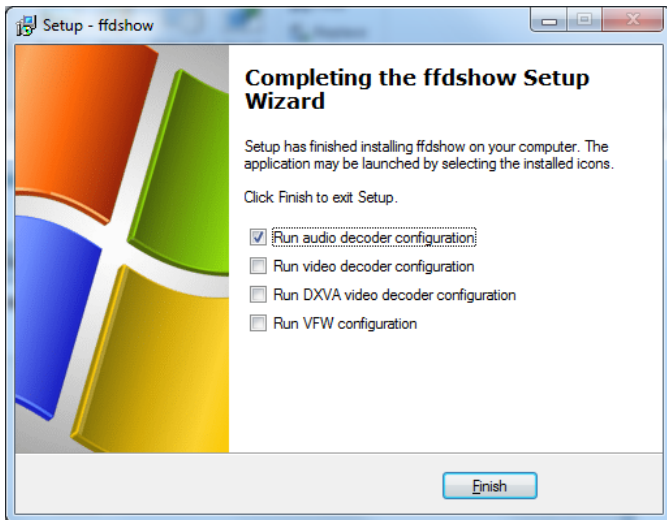

Install ffdshow to the default folder:
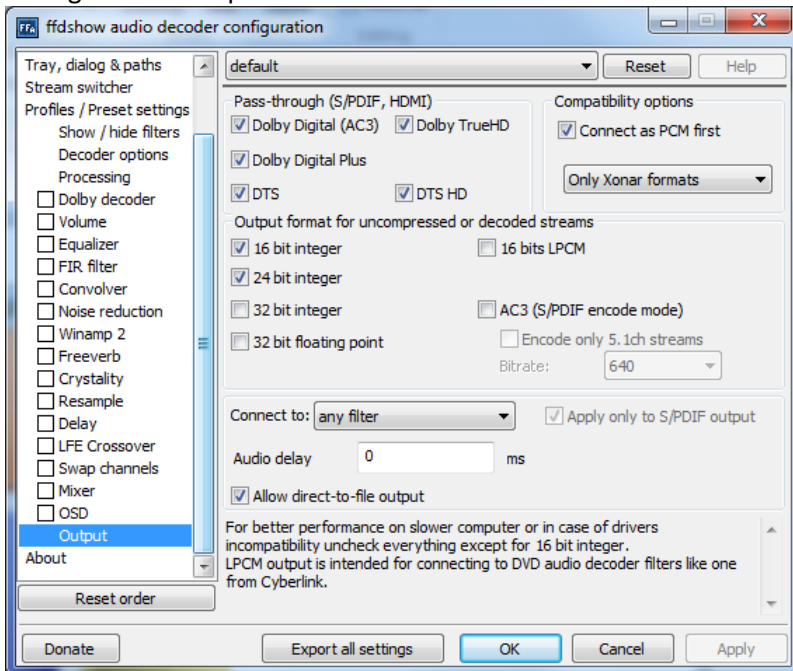
Setup the speakers according to:
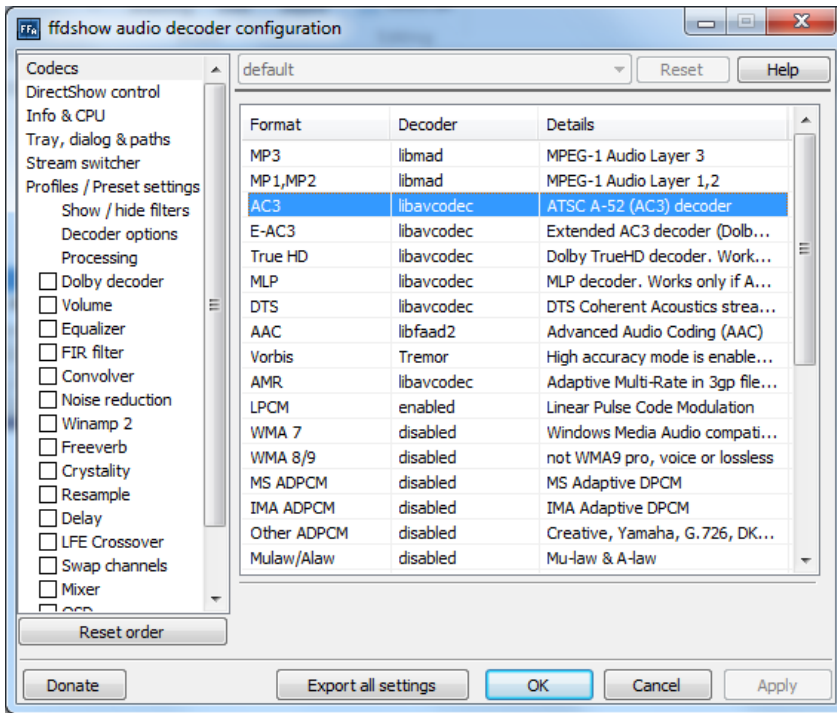

Press the install button:

Run the audio decoder configuration:
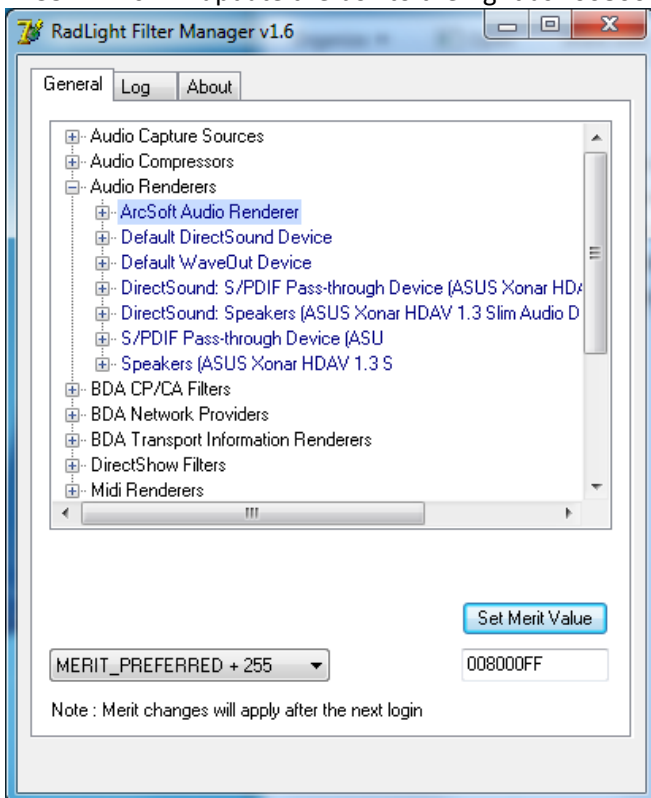
Configure the "outputs" like this:

Check the codecs for AC3, E-AC3, True HD, MLP and DTS are set to libavcodec:
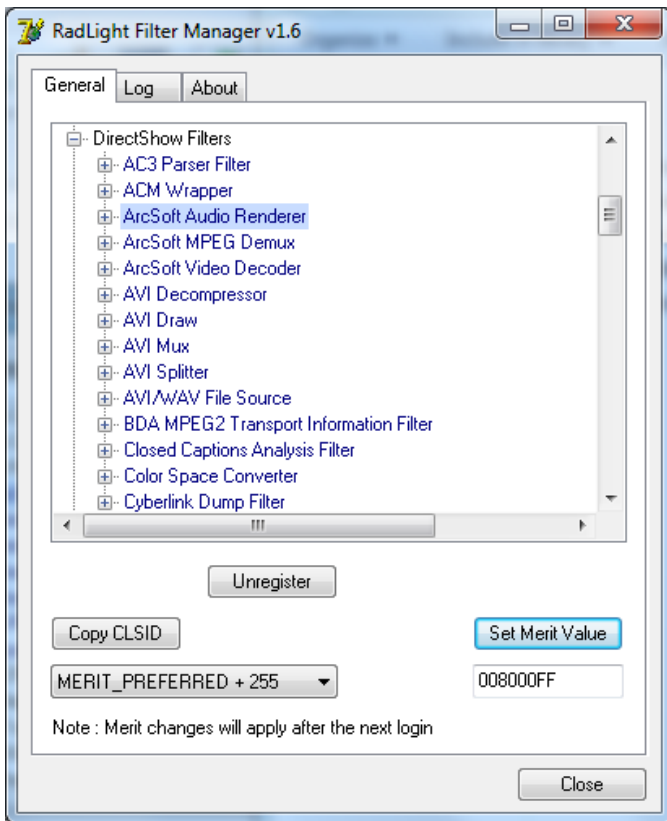
Press "OK" to complete.

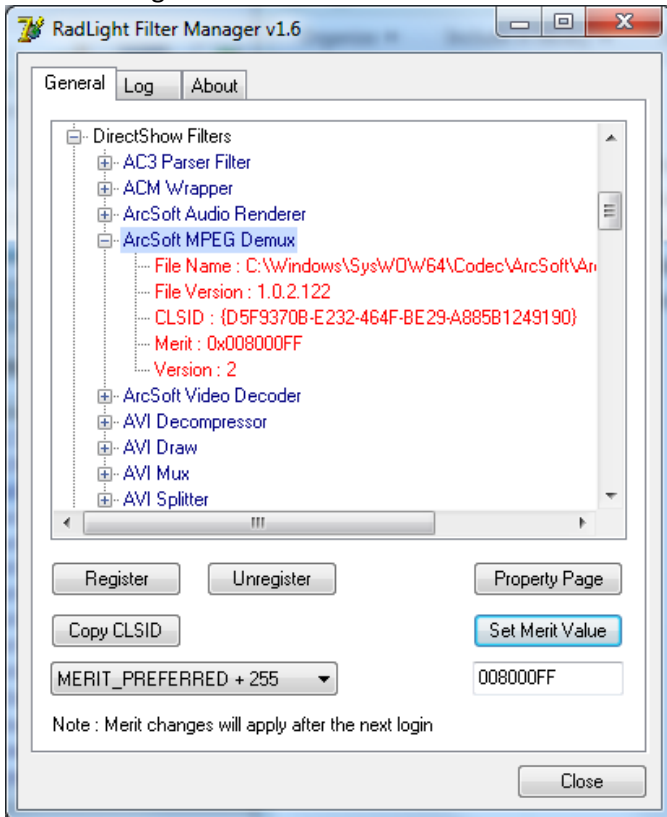## *Configure Filter Merits Using RadLight Filter Manager*

Run RadLight Filter Manager as Administrator by right clicking on the icon and select "Run as Administrator". Scroll down to the audio renderers and select the Arcsoft Audio Renderer. In the drop-down menu select "Merit_Preferred +255". This will update the box to the right as "0080000FF". Press "Set Merit Value" button.
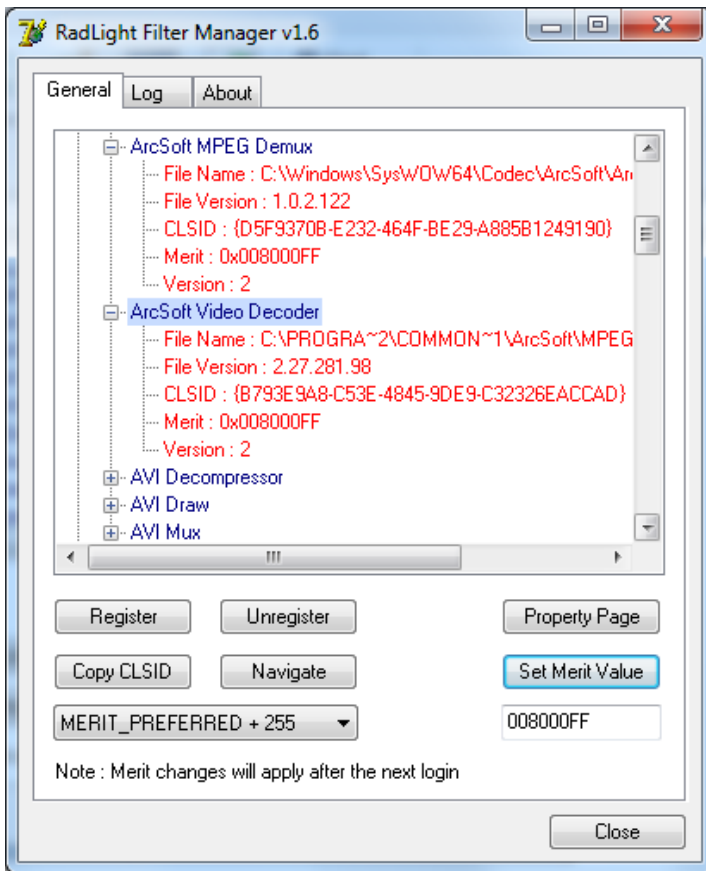

Scroll down to the DirectShow Filters and select the Arcsoft Audio Renderer again. In the drop-down menu select "Merit_Preferred +255". This will update the box to the right as "0080000FF". Press "Set Merit Value" button.
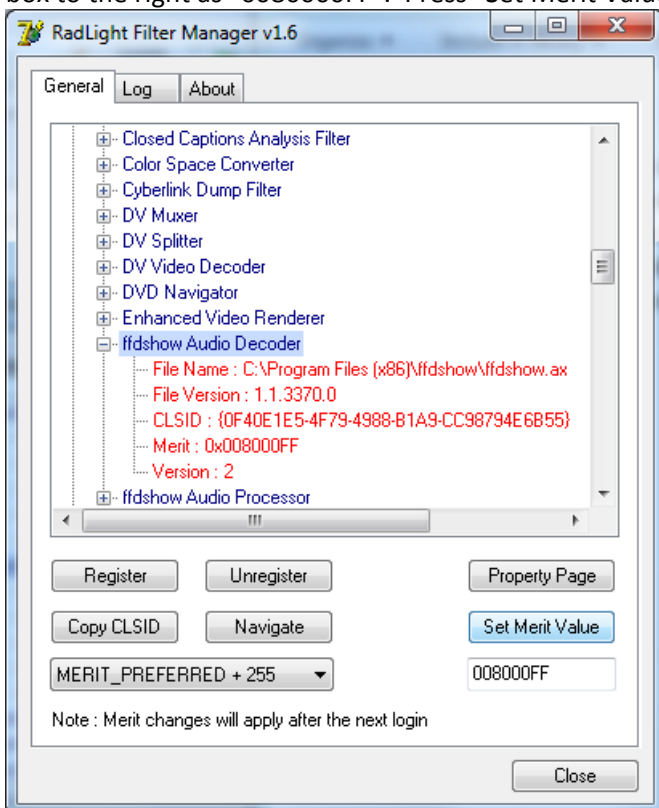
Scroll down to the Arcsoft MPEG Demux. In the drop-down menu select "Merit_Preferred +255". This will update the box to the right as "0080000FF". Press "Set Merit Value" button.

Scroll down to the Arcsoft Video Decoder. In the drop-down menu select "Merit_Preferred +255". This will update the box to the right as "0080000FF". Press "Set Merit Value" button.
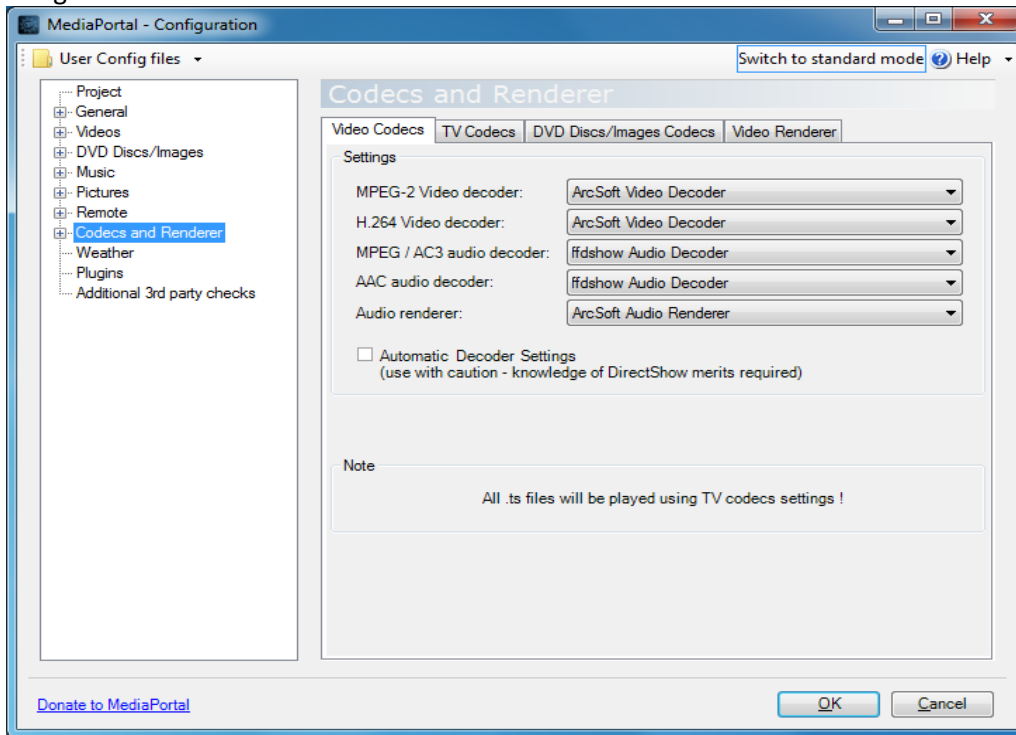
Scroll down to the ffdshow Audio Decoder. In the drop-down menu select "Merit_Preferred +255". This will update the box to the right as "0080000FF". Press "Set Merit Value" button.
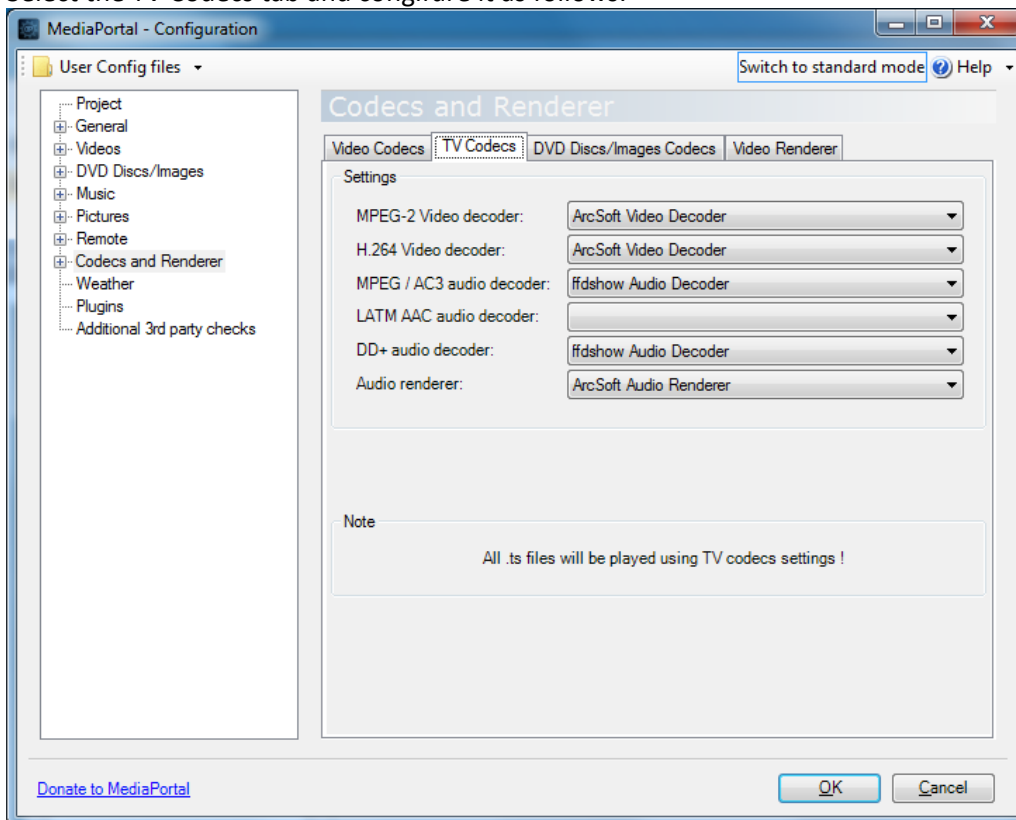

Press "Close". Now restart your computer for these changes to take effect. After restarting, you can open RadLight Filter Manager and verify that all of the merits set above are at "Merit_Preferred + 255".
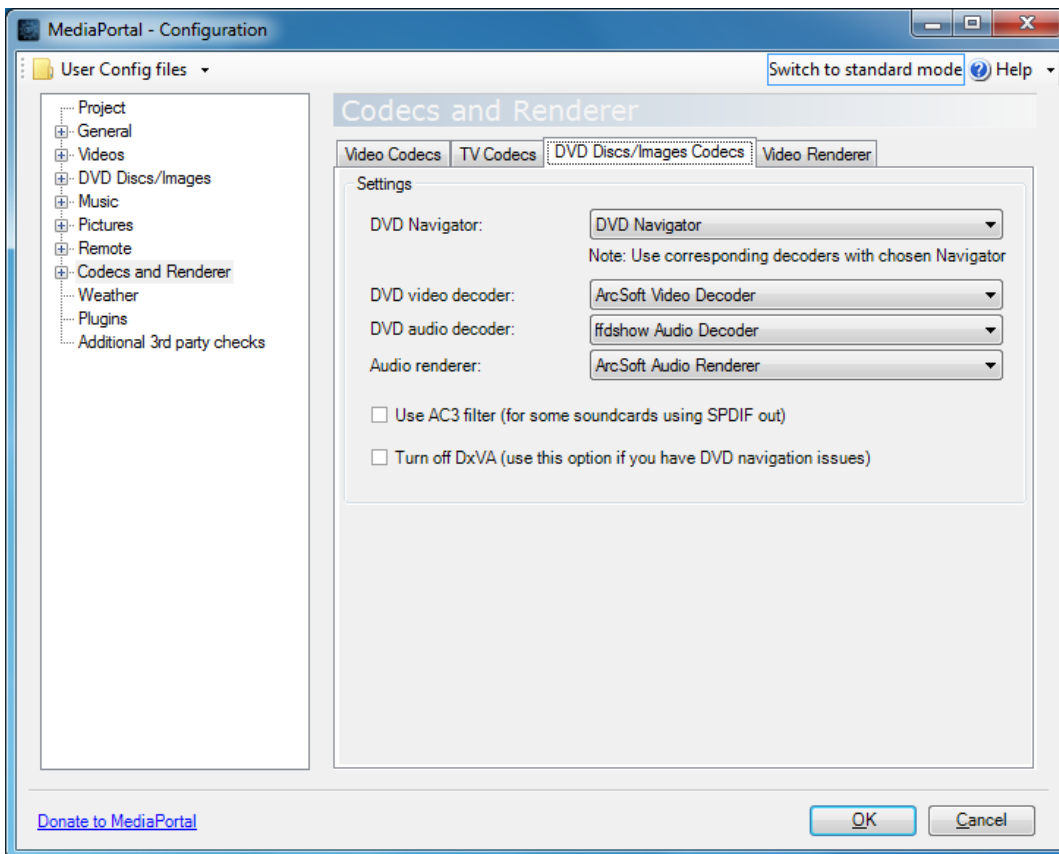
Configure Media Portal

Start the Media Portal Configuration utility. Scroll down to the Codecs and Renderer and select the Video Codecs tab. Congifure it as follows:
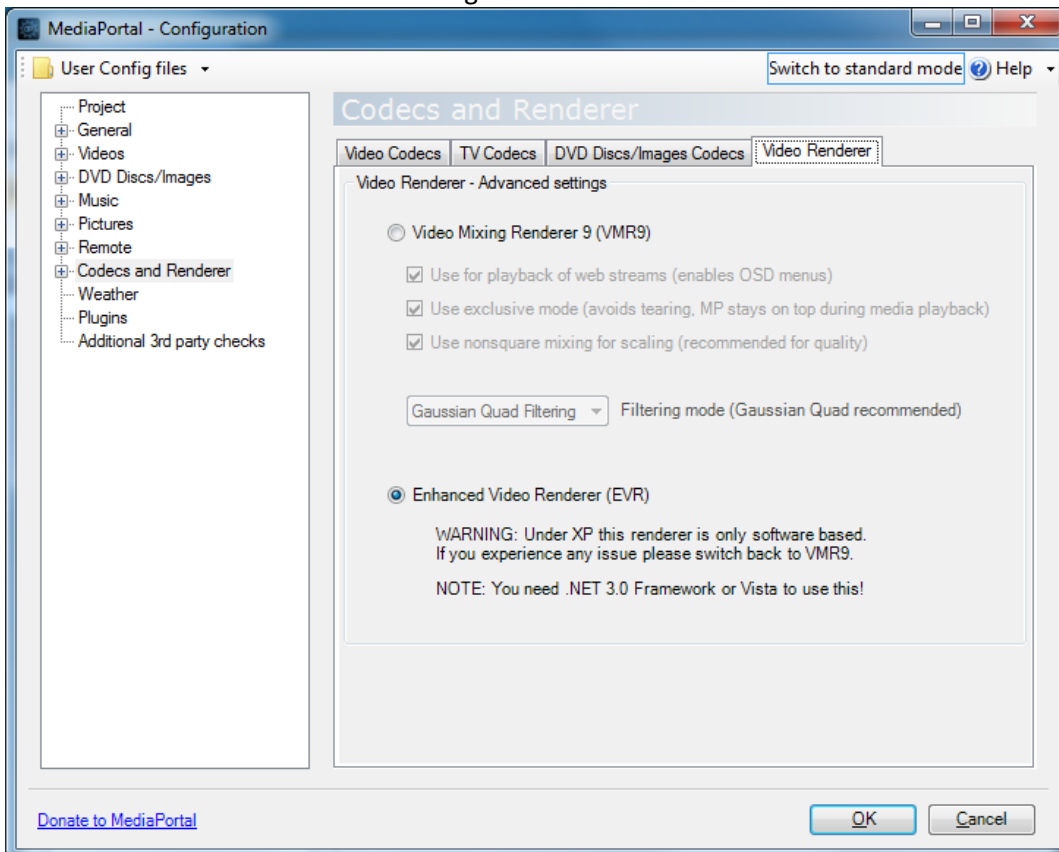

Select the TV Codecs tab and congifure it as follows:

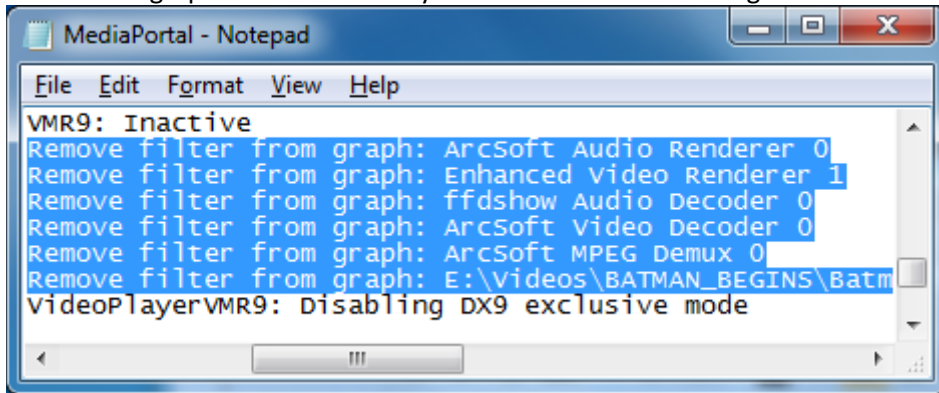Select the DVD Discs/Images Codecs tab and congifure it as follows:

Select the Video Renderer tab and congifure it as follows:

Press "OK" to exit the configuration utility. Now open Media Portal and play a file. Be patient, it takes a few seconds for the video to start. Hopefully, it will work.

Quit Media Portal and check the log to verify the filters used during playback. Open the Media Portal Configuration Utiltity. Press the "User Config Files" button and select the log folder. Open the "Media Portal" log file using Notepad. Scroll down the file toward the end. You should see the entries made when the filters where added/removed from the

DirectShow graph. If all went well you should see the following:

```
VMR9: Inactive
Remove filter from graph: ArcSoft Audio Renderer 0
Remove filter from graph: Enhanced Video Renderer 1
Remove filter from graph: ffdshow Audio Decoder 0
Remove filter from graph: ArcSoft Video Decoder 0
Remove filter from graph: ArcSoft MPEG Demux 0
Remove filter from graph: E:\Videos\BATMAN_BEGINS\Batm
VideoPlayerVMR9: Disabling DX9 exclusive mode
```