

# ONVIF Device Test Tool 15.06 Installation Guide

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## 1. Installation Guide

This installation guide document describes the procedure of installing the ONVIF Device Test Tool v. 15.06 in section 2, [ONVIF Device Test Tool installation](#).

Before installing the ONVIF Device Test Tool, make sure the media framework **ffdshow** is installed. This framework is required for real-time audio and video playback and display. If installed prior to the installation of the ONVIF Device Test Tool, the framework will be automatically configured during the test tool installation process. Alternatively, the **ffdshow** framework can be configured manually as described in section 3, [Configuring ffdshow](#). The **ffdshow** framework can be downloaded and installed from <http://sourceforge.net/projects/ffdshow-tryout/>.

Windows 7, and later Windows versions, requires the 'Function Discovery Resource Publication' service to be disabled for device discovery to work properly. Section 4, [Device Discovery Troubleshooting](#), describes how to do that.

The installation of ONVIF Device Test Tool v. 15.06 does not remove any previously installed ONVIF Test Tool versions, i.e. older ONVIF Test Tool versions should be manually uninstalled.

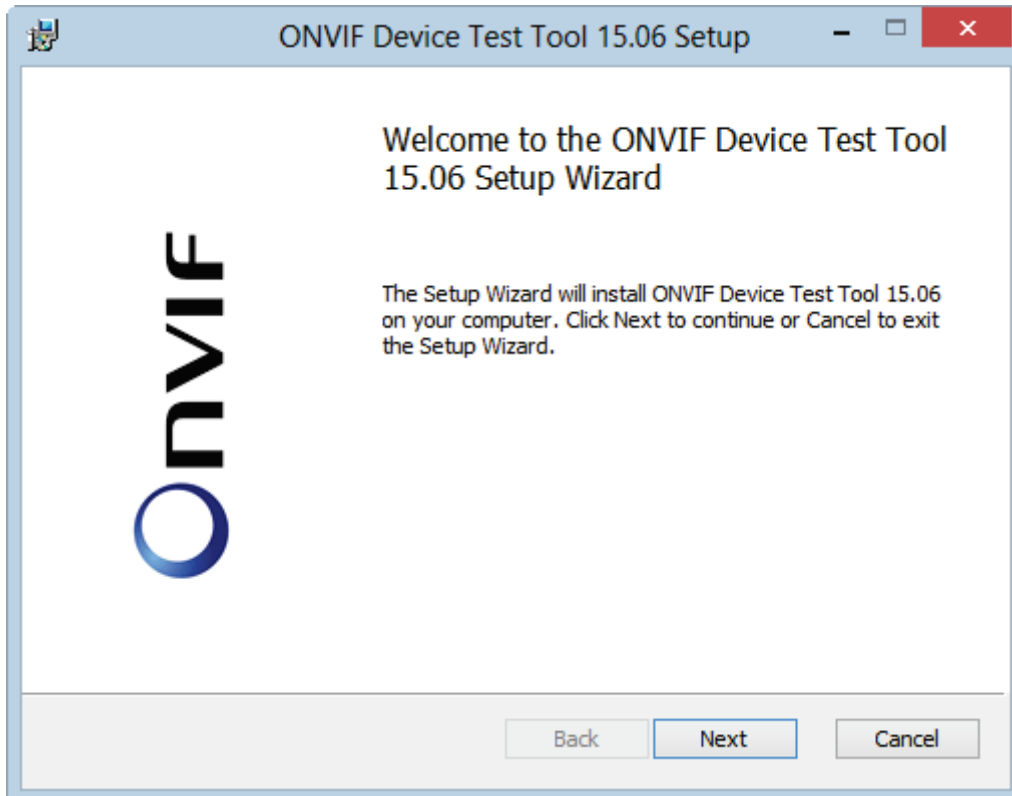
## 2. ONVIF Device Test Tool installation

### 2.1. Start Installation

To start the installation of the ONVIF Device Test Tool launch **setup.msi** or **setup.exe**. They are located in the directory where the test tool zip-file was unpacked

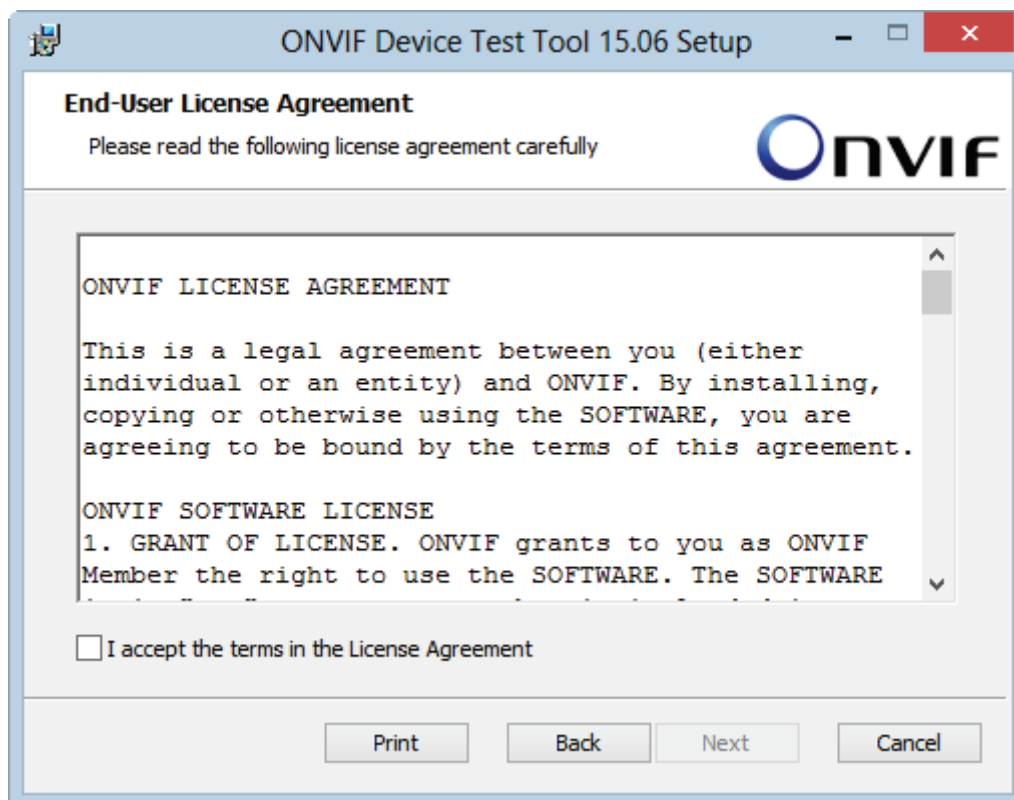
### 2.2. Welcome Page

The first page of the installation application is the welcome page. Click 'Next' to proceed.



### 2.3. License Agreement

Read through the license agreement. If accepting the license agreement, select the 'I accept the terms in the License Agreement' check-box and click 'Next' to proceed. Otherwise, click the 'Cancel' and the installation will terminate without the ONVIF Device Test Tool being installed. If necessary, click 'Print' to print out the License Agreement.

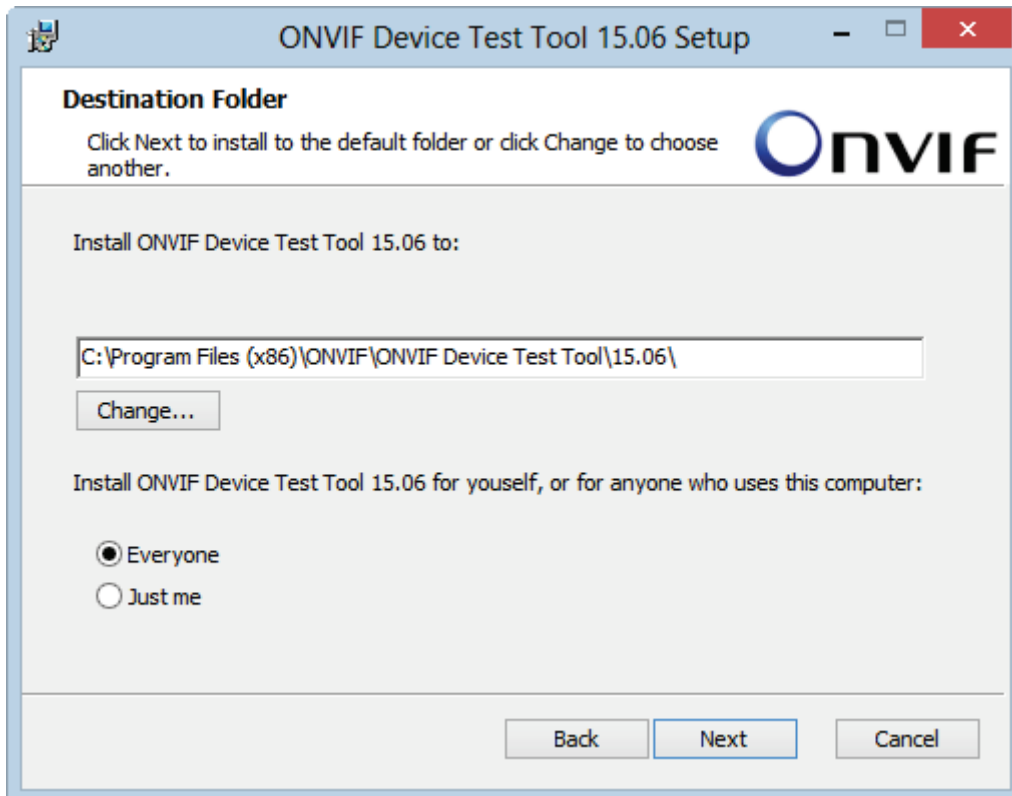


## 2.4. Target installation folder

The installation application provides a default target installation folder. To select another target directory, click 'Change ...' and select the desired new target installation directory.

Select the ONVIF Device Test Tool availability for all users of the target machine or only the one user installing the tool.

Once the target installation directory and tool availability are correct click 'Next'.



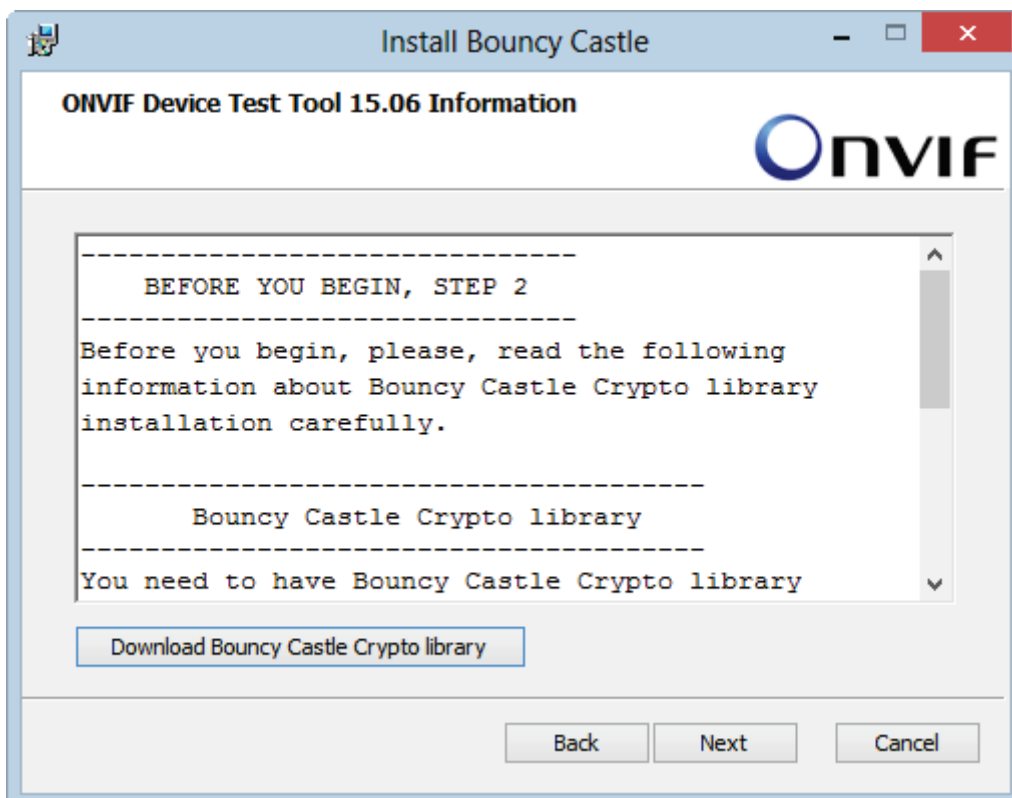
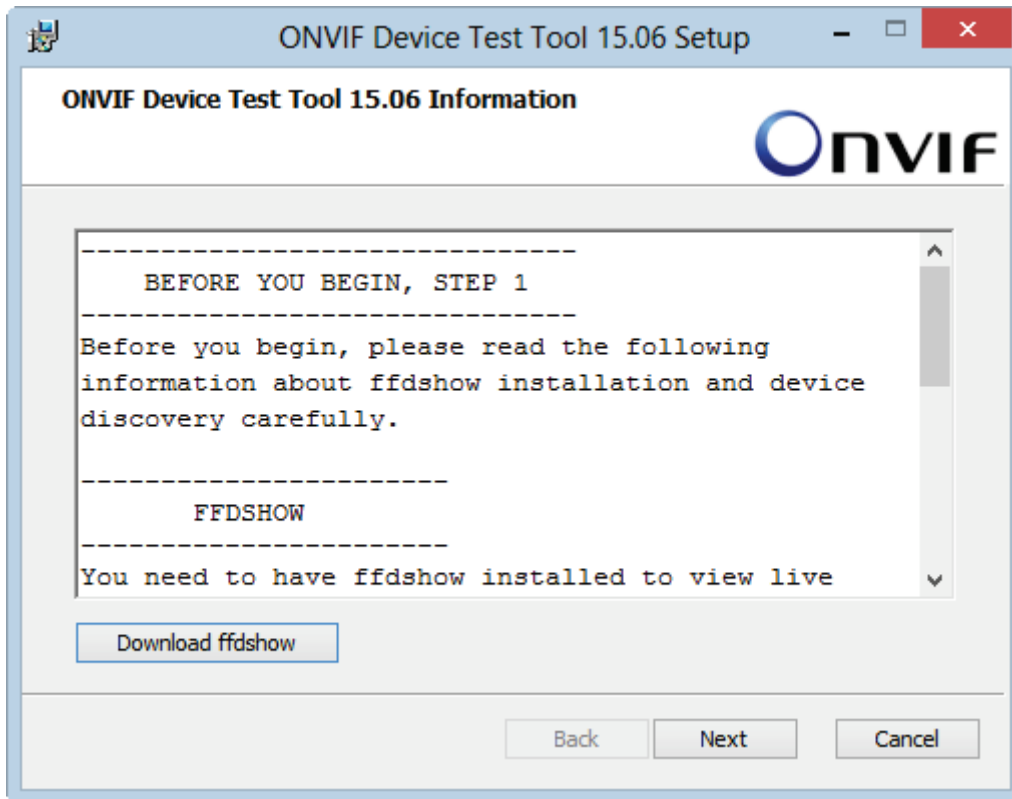
## 2.5. Start installation

The ONVIF Device Test Tool installation is now configured and the ONVIF Device Test Tool is now ready to be installed. Click 'Install' to proceed with the installation.



## 2.6. Installation information

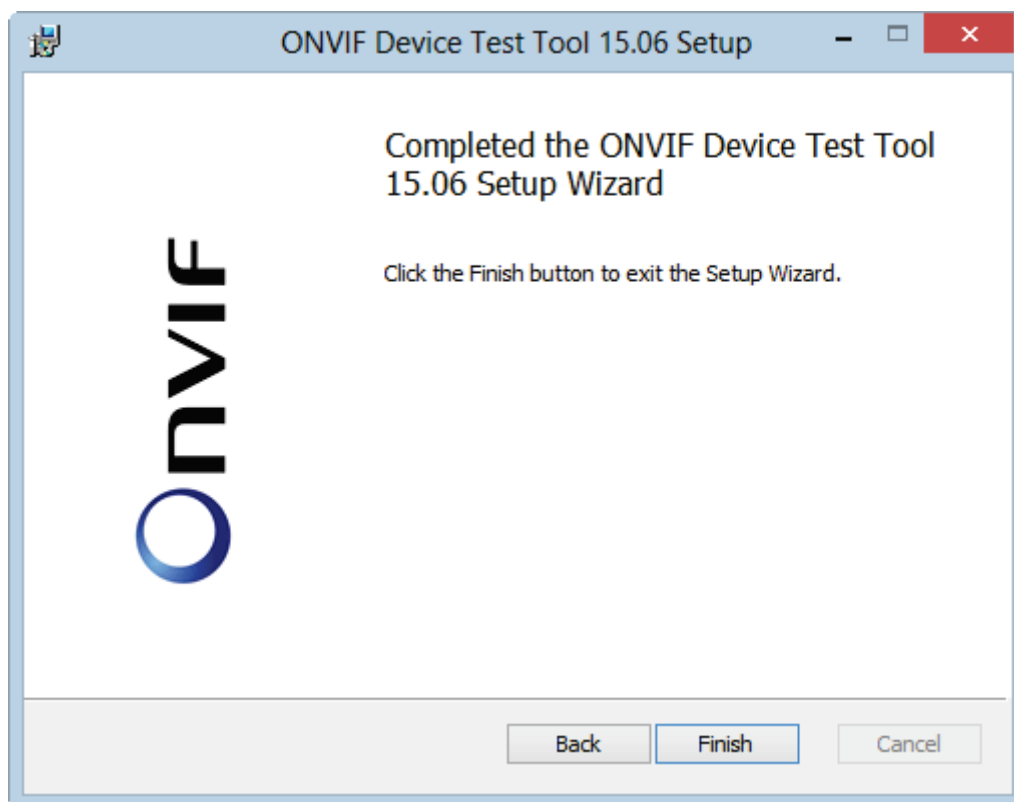
The last step in the installation procedure is the installation information pages. Review the installation information carefully. Once finished, click 'Next'.





## 2.7. Finish installation

When installation is completed, click 'Finish' to exit the Setup Wizard. The ONVIF Device Test Tool is now ready for use.



## 2.8. Start application

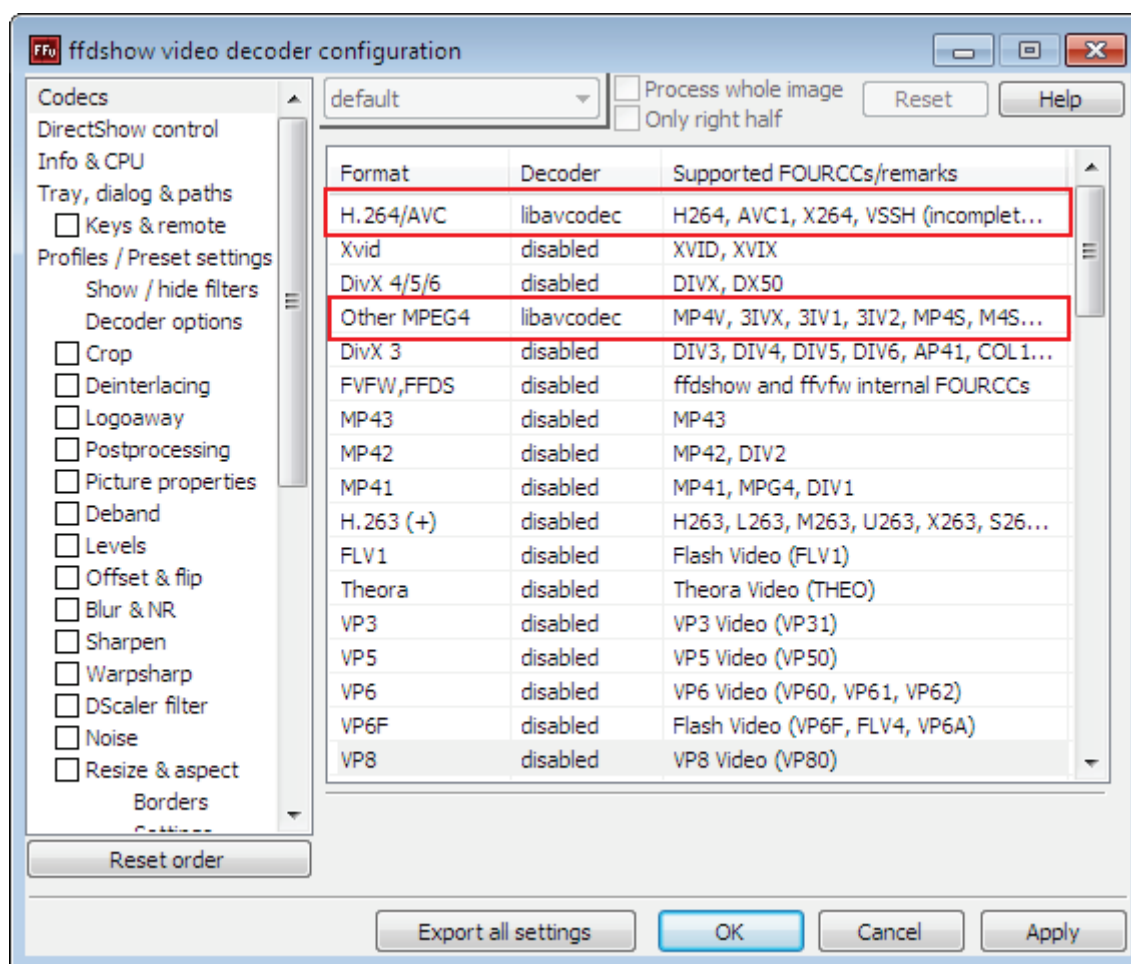
After the application installation is complete, there is a shortcut to the ONVIF Device Test Tool on the Windows Desktop and another one on the Start menu. Start the ONVIF Device Test Tool by clicking the icon.

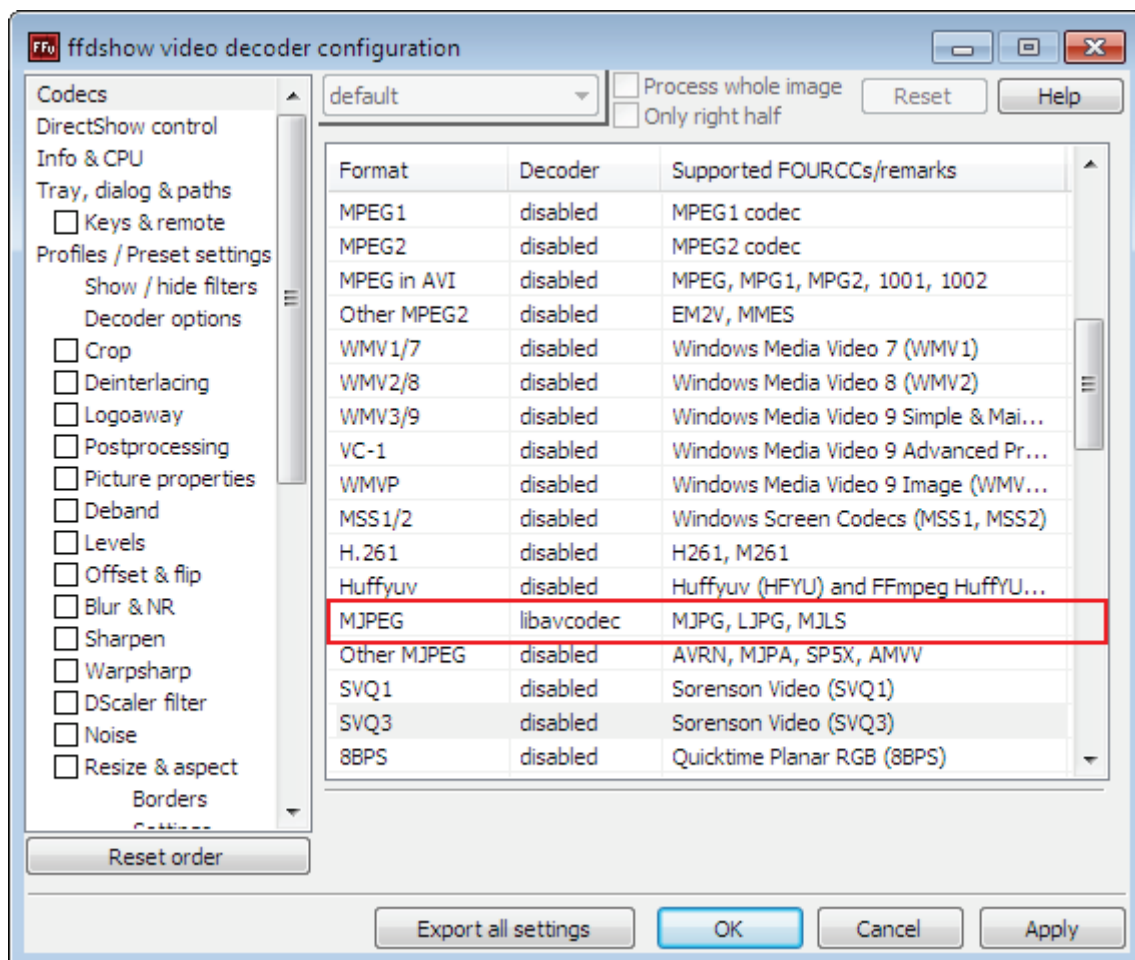
## 3. Configuring ffdshow

To display and playback video and audio the ONVIF Device Test Tool requires a multimedia framework, such as the ffdshow, to be installed on the computer. If ffdshow is installed before the installation of the ONVIF Device Test Tool, the installation program correctly configures ffdshow for use with the ONVIF Device Test Tool. Alternatively, ffdshow can be manually configured following the instructions below.

### 3.1. Video decoder configuration

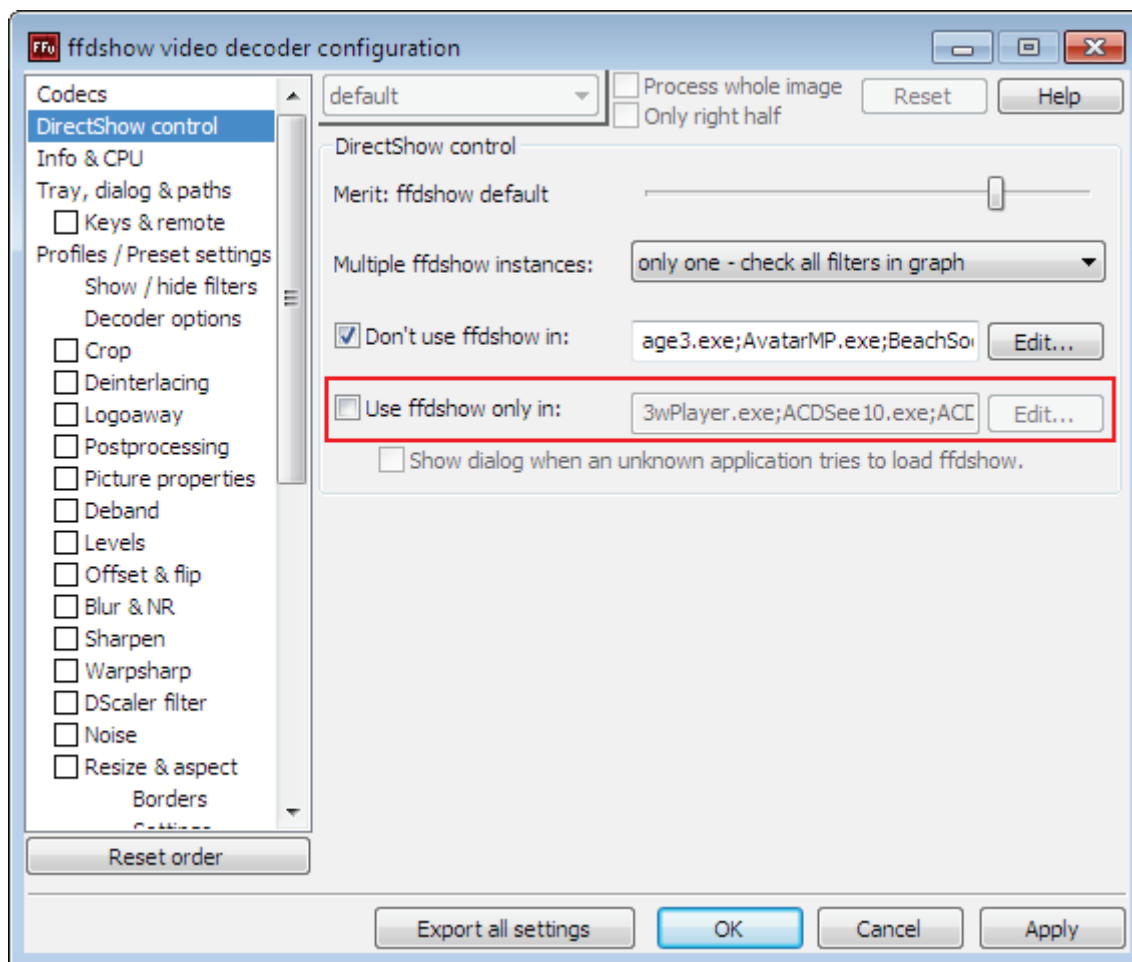
To configure ffdshow, launch the ffdshow video codec configuration utility and select the codecs configuration as illustrated below. Make sure 'H.264/AVC' and 'Other MPEG4' video formats have the 'libavcodec' selected as decoder, as well as the 'MJPEG' video format further down the video format list.





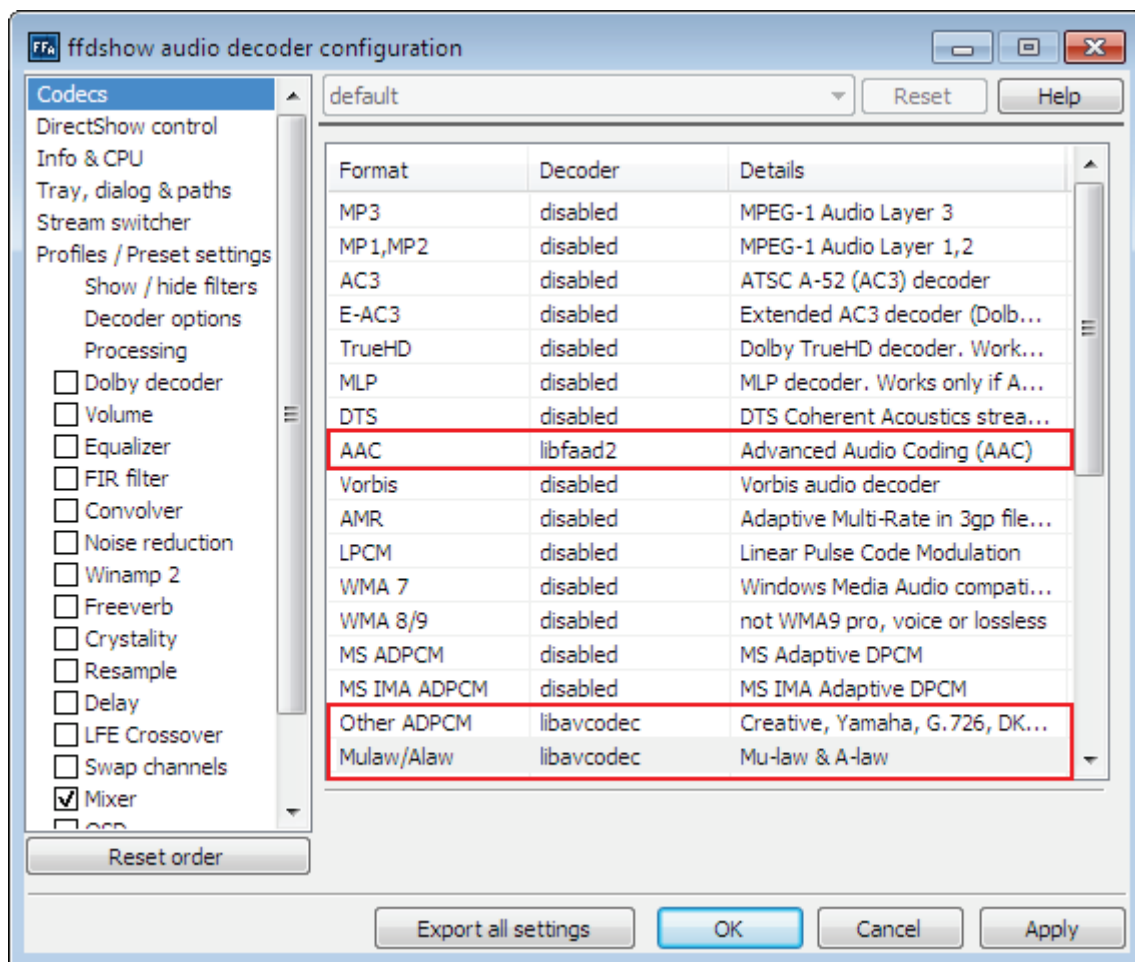
## 3.2. Video decoder DirectShow control

In the 'DirectShow control' menu pane, uncheck the 'Use ffmpeg only in:' checkbox as illustrated below.



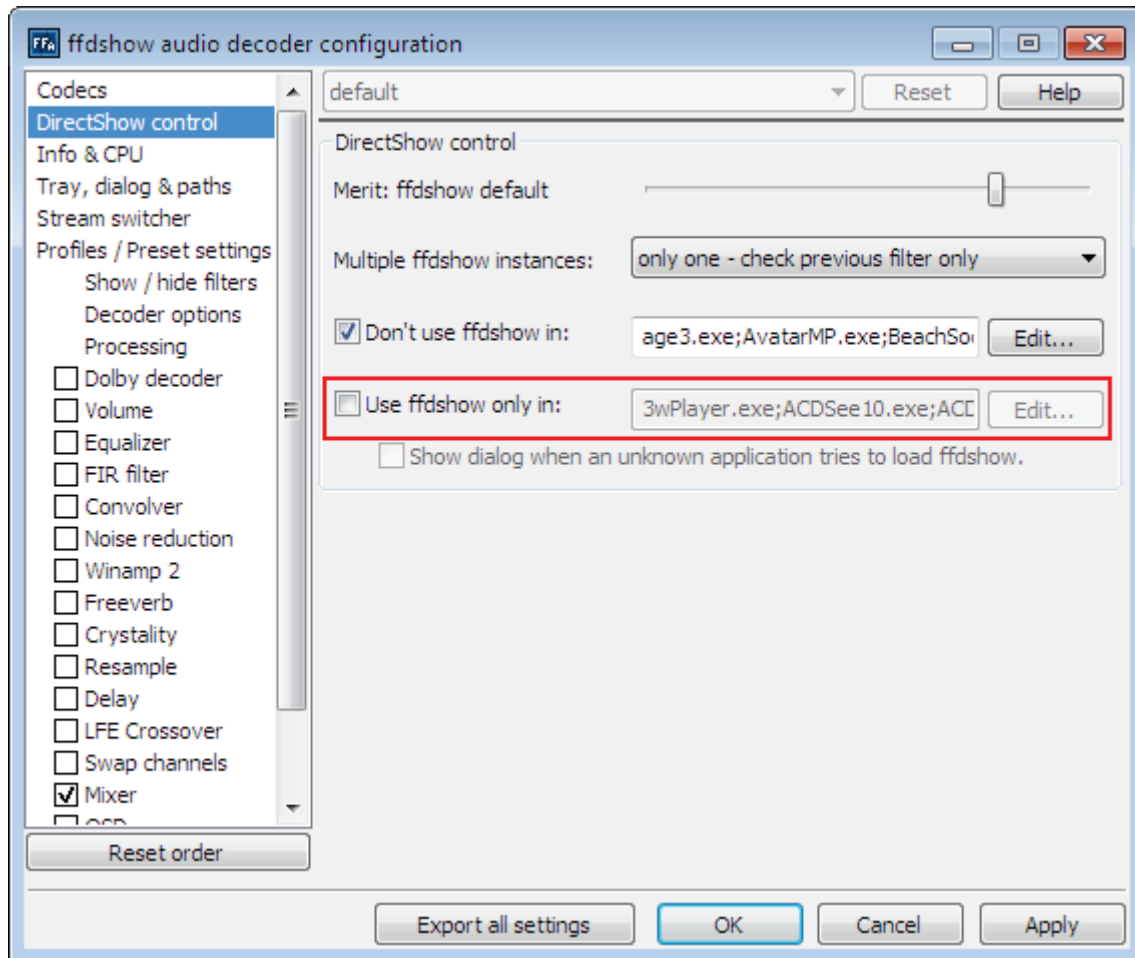
### 3.3. Audio decoder configuration

Launch the ffdshow audio codec configuration utility and select the 'Codecs' menu. Make sure 'libfaad2' decoder is selected for 'AAC' audio format, and 'libavcodec' is selected for 'Other ADPCM' and 'Mulaw/Alaw' audio formats, as illustrated below.





### 3.4. Audio decoder DirectShow control

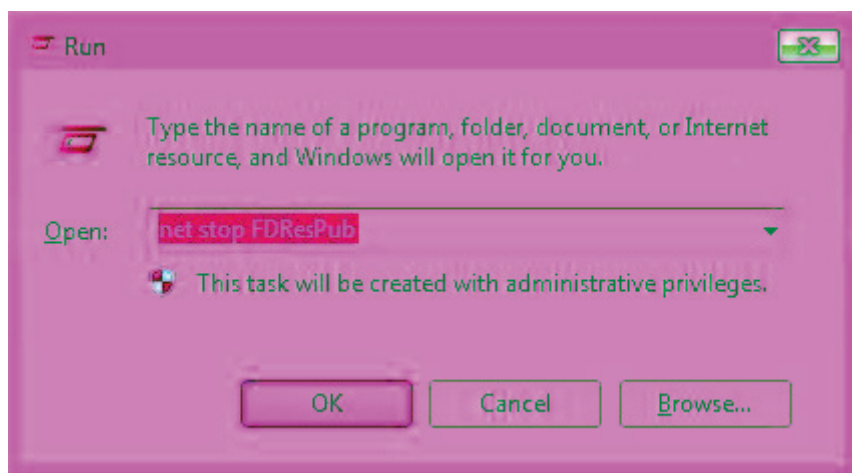
Similar as for video decoder configuration, also uncheck the 'Use ffdshow only in:' checkbox for DirectShow control in the audio decoder configuration.



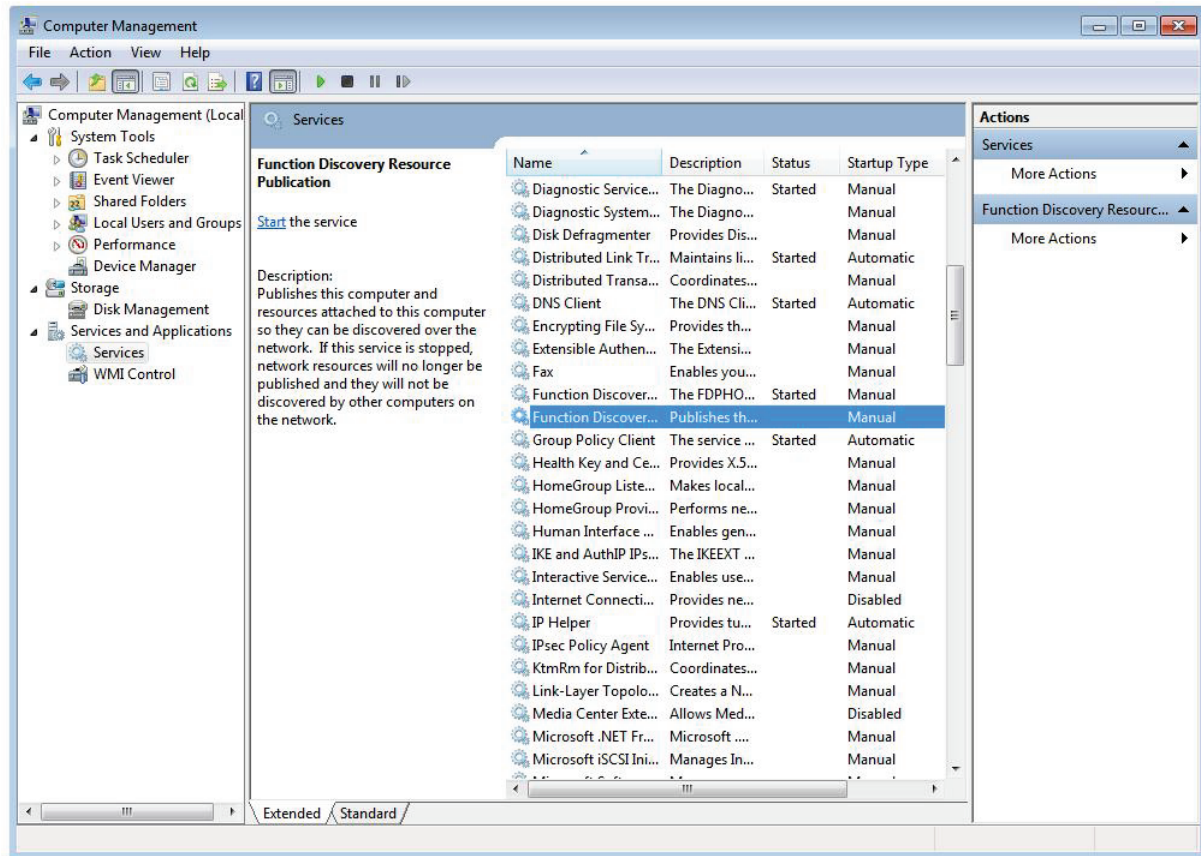
## 4. Device Discovery Troubleshooting

If using Windows 7 or higher, the Function Discovery Resource Publication service needs to be disabled for device discovery to work properly. This can be done either by executing the command 'net stop FDResPub' in the Command Prompt, as illustrated below, or alternatively through the Services dialog, as described in the next section.

To disable the service make sure you are logged in as the Administrator. Press the -button of the keyboard and, while holding down the , press the 'R' key on the keyboard to open up the 'Run' dialog window. In the 'Open' text frame type 'net stop FDResPub' as illustrated below, and press 'OK'.



Alternatively, start the Services tool and find the 'Function Discovery Resource Publication' in the service list. Make sure it is stopped, illustrated below.



The service can also be disabled to prevent it from start after reboot using the management console.



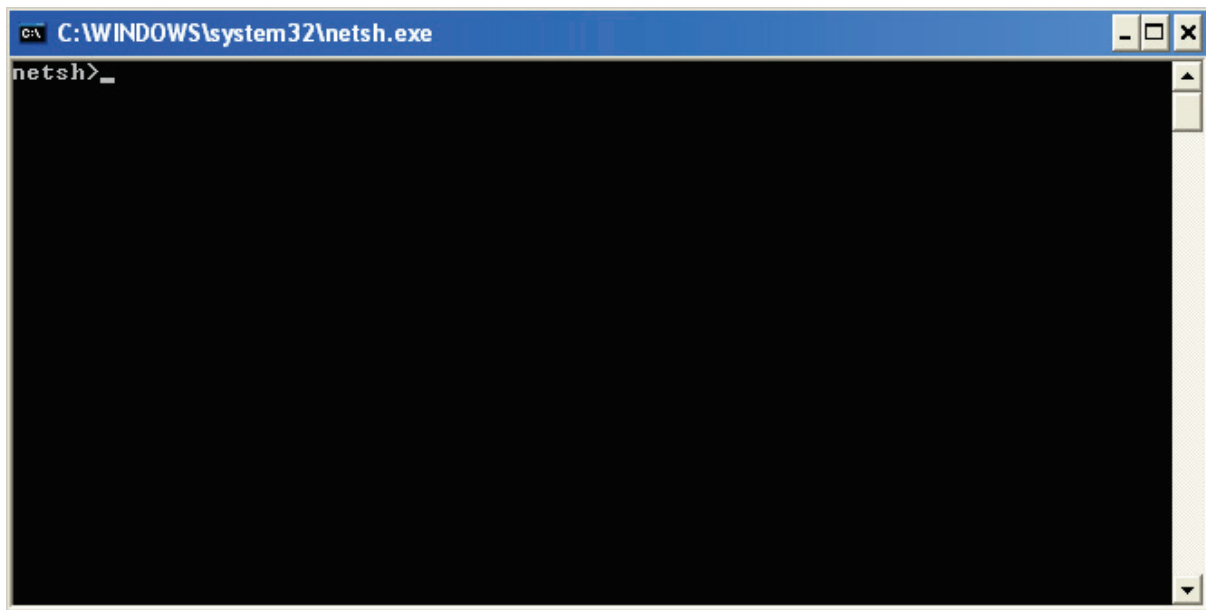
## 5. Installing and configuring IPv6

### 5.1. Configuring IPv6 routing

If experiencing problems connecting to devices using IPv6, manually configure the IPv6 routing table as described below.

#### 5.1.1. Start the netsh utility

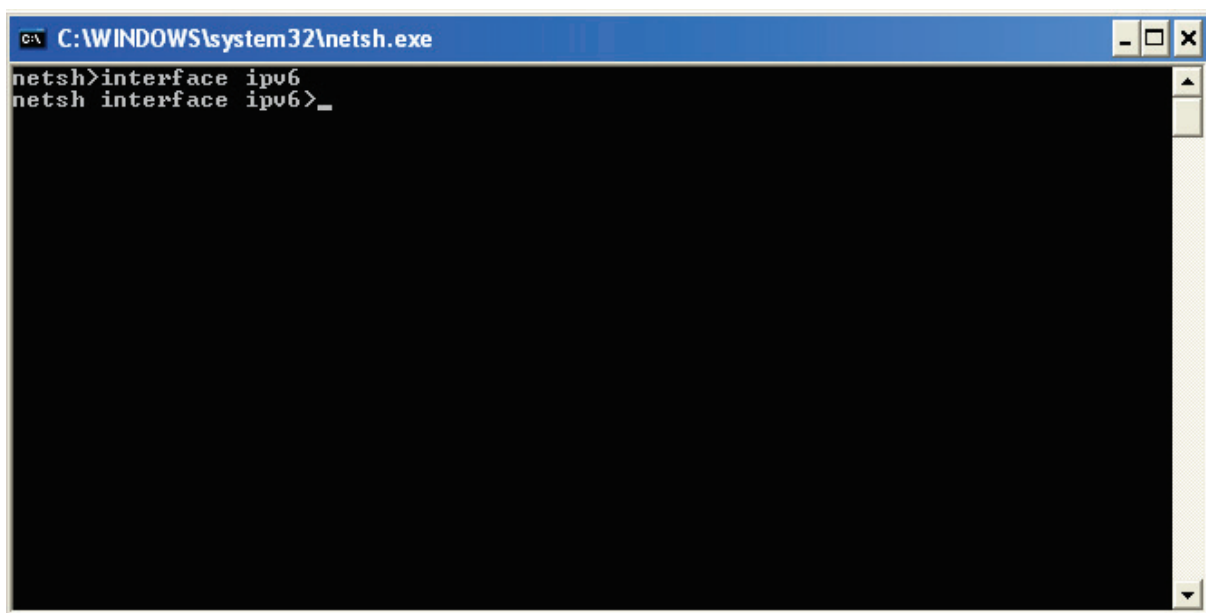
In the Command Prompt window, type 'netsh' and press 'ENTER'. A 'netsh' prompt will be shown, as is seen below.



```
C:\WINDOWS\system32\netsh.exe
netsh>_
```

#### 5.1.2. Select IPv6 configuration

At the 'netsh' command prompt, type 'interface ipv6' and press 'ENTER'.



```
C:\WINDOWS\system32\netsh.exe
netsh>interface ipv6
netsh interface ipv6>_
```

### 5.1.3. Display current interfaces

To display the current interfaces, type 'show interface' and press 'ENTER' and the 'netsh interface ipv6' prompt.

Find the interface to be used, typically named 'Local Area Connection' and note its index in the 'Idx' column.

```

C:\WINDOWS\system32\netsh.exe
netsh>interface ipv6
netsh interface ipv6>show interface
Querying active state...

Idx  Met  MTU  State      Name
----  ---  ---  -
5     2    1280 Disconnected Teredo Tunneling Pseudo-Interface
4     0    1500 Connected  Local Area Connection
3     1    1280 Connected  6to4 Pseudo-Interface
2     1    1280 Connected  Automatic Tunneling Pseudo-Interface
1     0    1500 Connected  Loopback Pseudo-Interface

netsh interface ipv6>

```

### 5.1.4. Add routing entry

Also at the 'netsh interface ipv6' prompt, type 'add route prefix=<address prefix> interface=<interface idx>' and press 'ENTER'. The '<interface idx>' is the index of the network interface as being identified above. The '<address prefix>' is the prefix for the device (DUT) IPv6 address, in the format of '<address>/<prefix length>', e.g. '2001:1:1:1:1:1:1:1/128' or 'ff00::/8'.

```

C:\WINDOWS\system32\netsh.exe
netsh>interface ipv6
netsh interface ipv6>show interface
Querying active state...

Idx  Met  MTU  State      Name
----  ---  ---  -
5     2    1280 Disconnected Teredo Tunneling Pseudo-Interface
4     0    1500 Connected  Local Area Connection
3     1    1280 Connected  6to4 Pseudo-Interface
2     1    1280 Connected  Automatic Tunneling Pseudo-Interface
1     0    1500 Connected  Loopback Pseudo-Interface

netsh interface ipv6>add route prefix=fe80::240:8cff:fea6:81cb/128 interface=4
Ok.

netsh interface ipv6>_

```

## 5.1.5. Verify routing information

To verify the added routing information, type 'show route' and press 'ENTER'. Verify that the new route is added to the routing table.

```

C:\WINDOWS\system32\netsh.exe
netsh>interface ipv6
netsh interface ipv6>show interface
Querying active state...

Idx  Met  MTU  State  Name
----  --  ---  -
5    2   1280 Disconnected  Teredo Tunneling Pseudo-Interface
4    0   1500 Connected     Local Area Connection
3    1   1280 Connected     6to4 Pseudo-Interface
2    1   1280 Connected     Automatic Tunneling Pseudo-Interface
1    0   1500 Connected     Loopback Pseudo-Interface

netsh interface ipv6>add route prefix=fe80::240:8cff:fea6:81cb/128 interface=4
Ok.

netsh interface ipv6>show route
Querying active state...

Publish Type  Met  Prefix  Idx  Gateway/Interface Name
-----
no      Manual  0  fe80::240:8cff:fea6:81cb/128  4  Local Area Connection

netsh interface ipv6>_

```

## 5.1.6. Add routing of other devices

All ONVIF devices to be tested for IPv6 based traffic needs to have a valid routing entry added to the routing table. That is, repeat the last two steps for all devices intended to be tested.

Note that routing for the address '2001:1:1:1:1:1:1:1' should be added to the routing table because it is used in the testing procedure.

## 5.1.7. Close netsh

To close the netsh configuration tool type 'close' and press 'ENTER'. The routing table of your windows installation has now been manually configured and can now be used by the ONVIF Test Tool to test IPv6 services.