

MediaReactor Lite for Avid v8

User Guide



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1 Introduction.....	4
1.1 Conventions.....	4
1.2 About MediaReactor Lite for Avid.....	5
1.3 System Requirements.....	6
1.3.1 Recommended Environment.....	6
1.4 Supported Operating Systems / File Types.....	7
2 Getting Set Up.....	8
2.1 Installation.....	8
2.1.1 Install on Windows.....	9
2.1.2 Install on macOS.....	10
2.2 Where to find your files.....	12
2.2.1 Windows.....	12
2.2.2 macOS.....	12
2.2.3 Linux.....	12
2.3 License the Software.....	13
2.3.1 How Do I Remove the Watermarks?.....	13
2.3.2 Licensing for Windows.....	14
2.3.3 Licensing for Linux and macOS.....	15
3 Using MediaReactor Lite for Avid.....	17
3.1 ...with Avid Media Composer.....	18
3.1.1 Avid Media Composer 8.6 and greater.....	18
3.1.2 Avid Media Composer Before 8.6.....	20
3.1.2.1 Compressor.....	22
3.1.2.2 Motion.....	22
3.2 Accessing S3/HTTP/HTTPS Assets with .STREAM Files.....	23
3.2.1 Direct Access to Cloud Assets.....	23
3.2.2 DTStreamFileCreator for S3 Access.....	24
3.2.2.1 Make Stream File.....	26
3.2.2.2 Localize File.....	27
3.2.2.3 Encrypt Stream.....	27
3.3 Import Control.....	28
3.3.1 AAF.....	29
3.3.2 AVI.....	30
3.3.3 GXF.....	31
3.3.4 LXF.....	32
3.3.5 M3U8.....	33
3.3.6 MP4.....	34
3.3.7 MOV.....	35
3.3.8 MPG.....	36
3.3.9 MXF.....	37
3.3.10 TS.....	38
4 Copyrights and Trademark Notices.....	39
4.1 General.....	39
4.2 GNU LESSER GENERAL PUBLIC LICENSE.....	48
4.2.1.1 0. Additional Definitions.....	48
4.2.1.2 1. Exception to Section 3 of the GNU GPL.....	48
4.2.1.3 2. Conveying Modified Versions.....	48
3. Object Code Incorporating Material from Library Header Files.....	49

4. Combined Works.....	49
5. Combined Libraries.....	50
6. Revised Versions of the GNU Lesser General Public License.....	50
4.3 MPEG Disclaimers.....	51
4.3.1 MPEGLA MPEG2 Patent.....	51
4.3.2 MPEGLA MPEG4 VISUAL.....	51
4.3.3 MPEGLA AVC.....	51
4.3.4 MPEG4 SYSTEMS.....	51
4.4 Drastic Technologies Limited Warranty and Disclaimers.....	52
4.4.1 Warranty Remedies.....	52
4.4.2 Software Updates.....	52
4.4.3 Restrictions and Conditions of Limited Warranty.....	52
4.4.4 Limitations of Warranties.....	53
4.4.5 Damages.....	53

1 Introduction

This manual is for MediaReactor Lite version 8.x software from Drastic Technologies, Ltd.

1.1 Conventions

This manual assumes the following:

That the user knows how to operate a mouse and keyboard and perform the basic functions of Microsoft Windows, macOS or Linux operating system.

That the user is familiar with the creative software in use.

That the user has access to technicians capable of placing the device on the network and setting up any SAN systems if necessary.

The name of a control or display present on the interface will be displayed in **bold** text.

Where a portion of the manual is referred to the name of section mentioned will be displayed in *italics*.

Certain images in this document may have been grayed out where it is useful or necessary to place indicator marks to show specific controls or displays above a darker background.

1.2 About MediaReactor Lite for Avid

MediaReactor Lite for Avid provides plugin components to allow Avid applications to access supported file types in real time without a transcoding step.

MediaReactor Lite for Avid is a streamlined version of MediaReactor Workstation

[MediaReactor Workstation](#)

with a smaller supported file set specifically for Avid products such as Media Composer, NewsCutter and Symphony. Check the product page:

[MediaReactor Lite for Avid](#)

If you are editing with Adobe products, MediaReactor Lite for Adobe provides a targeted set of the most commonly requested read and write formats for products such as Premiere, Prelude, Media Encoder and After Effects. Check the product page:

[MediaReactor Lite for Adobe](#)

1.3 System Requirements

1.3.1 Recommended Environment

MediaReactor Lite for Avid software must be installed on a system at least as powerful as the configurations listed below.

Minimum Hardware Platform

Post 2000 multi core processor capable of running the host application.

Recommended Hardware Platform

Recommend hardware from the host application vendor. Multi cores and OpenCL, Cuda and shader GPUs will be used if available, but are not absolutely required.

Demo downloads of MediaReactor Lite software are available for the user to test their application and to confirm their workflow. Faster and more powerful hardware will provide better performance. In some cases, specific hardware will be required in order to enable resource-intensive, advanced or optional features.

1.4 Supported Operating Systems / File Types

MediaReactor Lite provides support for Avid products in Windows 64 and macOS 64 bit

Extension	File Format	Codec	Read	Write
CDX	Codex	Codec raw bayer stills	X	
CINE	Phantom	Phantom 10, 12 and 14 bit bayer	X	
DNG	CinemaDNG	10, 12 and 16 bit bayer	X	
KRW	Kinefinity	KineRAW Compressed Raw Stills and Stream	X	
MLV	Magic Lantern	Raw 14 bit bayer with PCM audio	X	
MOV	QuickTime	(FFMPEG) ProRes (ProRes, ProRes LT, ProRes HQ, ProRes Proxy), h264/AAC	X	X
MOV	Reference File	MOV reference file pointing at h264, ProRes, DV, AVCI	X	
MP4	HEVC, h.264	HEVC/265	X	
MP4	XAVC-S	Sony XAVC-S HD/4K Cameras	X	X
MP4	MPEG-2	Sony/Canon camera	X	
MPD	DASH	DASH Fragmented MP4 and Smooth Streaming	X	
RMF	RMF	Canon C500 raw 10 bit bayer files	X	
SEQ	Bayer	Raw camera seq bayer files	X	
SIV	Bayer	Raw camera siv bayer files	X	
STREAM	S3, HTTP, HTTPS	Web assets on S3, http, or https storage, in the formats supported by the product licensed	X	
VRW	Varicam Raw	Panasonic Varicam Raw	X	

2 Getting Set Up

2.1 Installation

Here is how to install MediaReactor Lite for Avid. Attach a standard keyboard, mouse and VGA monitor to the system. Plug the system in and turn it on.

IMPORTANT! Log on as Administrator. If the user name and password entered do not extend Administrator privileges, MediaReactor Lite for Avid will not install properly. If unsure as to what level of privilege the log-on provides, consult a System Administrator.

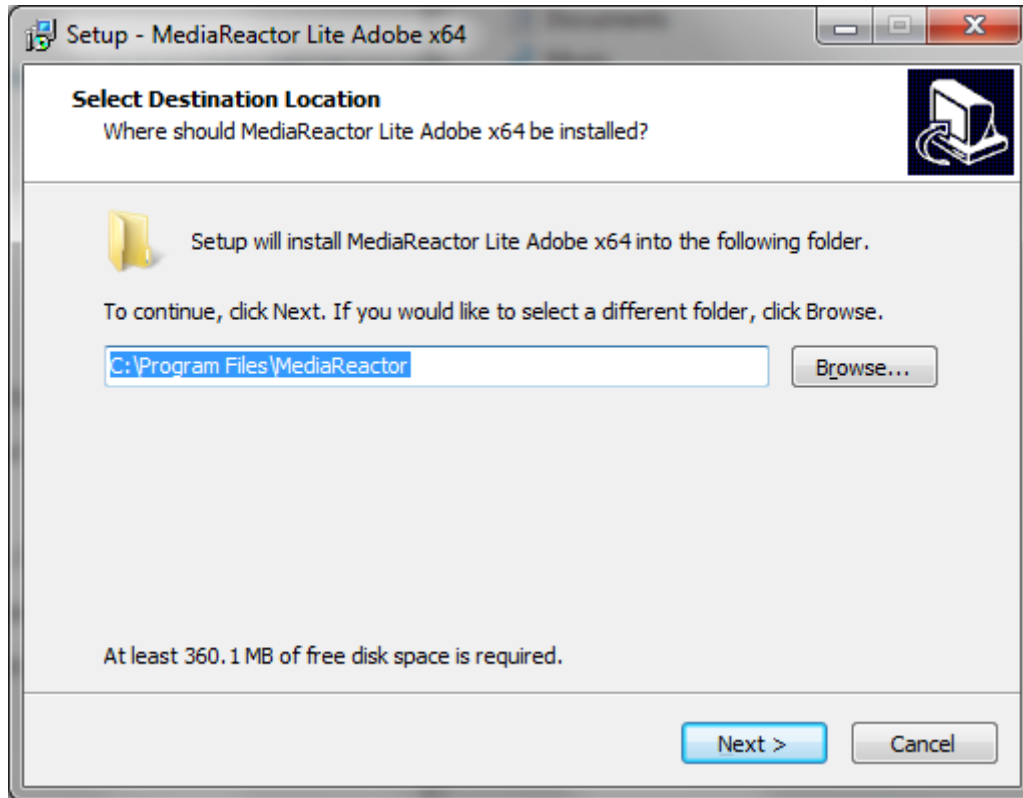
Confirm that any other programs are closed before starting this installation.

Make sure the system clock is properly set. Open the **Control Panel**, go to **Date/Time**. If the time is reset while running a duration-limited license, it may destroy the license.

2.1.1 Install on Windows

For Windows: Double-click or run the executable installation file.

Depending on your setup, you may need to allow the installer to run. Once you have done this, and selected the installer language, you will see a dialog similar to this:



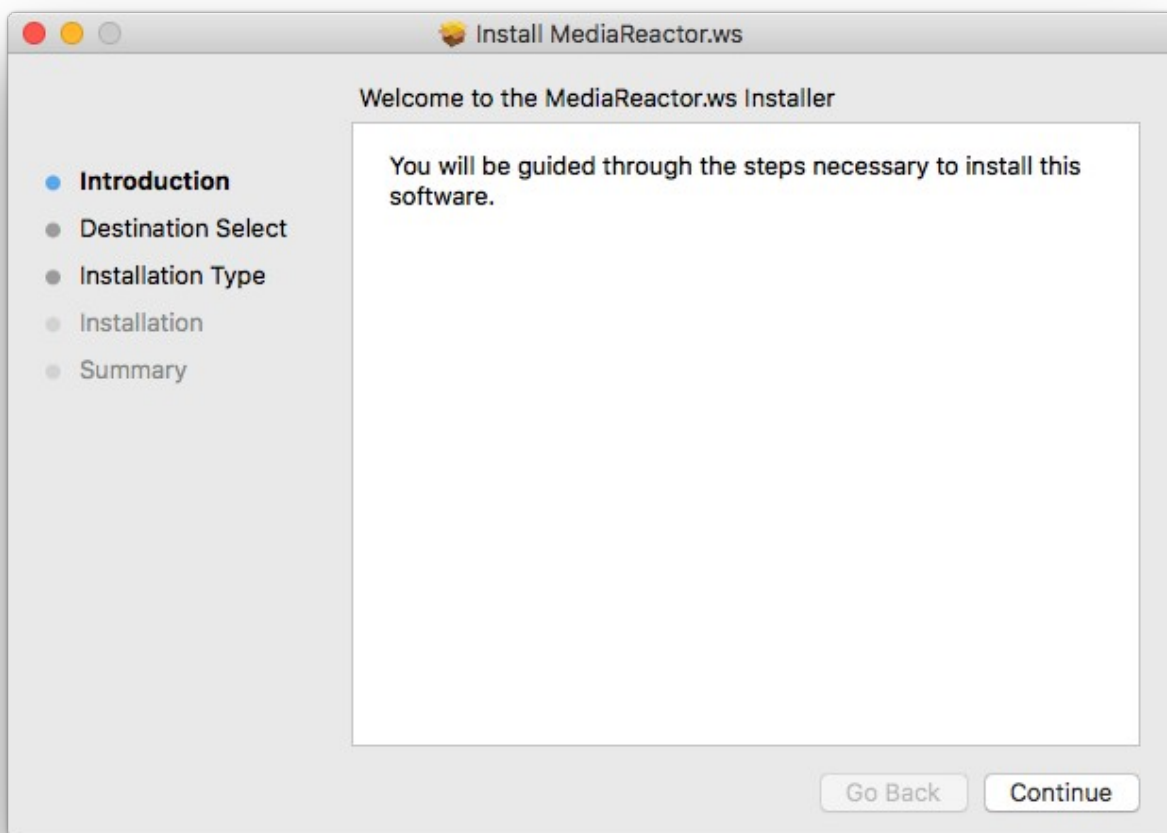
The user will be prompted to move through each step of the install by pressing the “**next**” or “**finish**” button. Carefully read the instructions that are provided.

Note: When installing on a Windows 64 bit system make sure to install both the 32 bit and 64 bit versions if you are also running 32 bit applications.

2.1.2 Install on macOS

For macOS: Double click on the macOS PKG installer:

This should display a dialog similar to this:



Click **Continue** and carefully follow the instructions to install the software.

Upon install completion, MediaReactor Lite for Avid will prompt the user to **Restart**. Agree to **Restart**.

Apple Pro hardware accelerated codec support is available for macOS installs.

Pro Video Formats 3.1 (HW accel h.264/265/Prores)

<https://support.apple.com/en-ca/106396>

Rosetta 2 (for AVCi-100)

<https://support.apple.com/en-us/102527>

2.2 Where to find your files

2.2.1 Windows

C:\Program Files\MediaReactor\

C:\ProgramData\Drastic\

Application specific plugin directories

Links to applications are available under the Start menu, MediaReactor folder

2.2.2 macOS

/Applications/MediaReactor/

/Libraries/Frameworks/

DrasticDDR.framework

Intel_IPP.framework

Application specific plugin directories

2.2.3 Linux

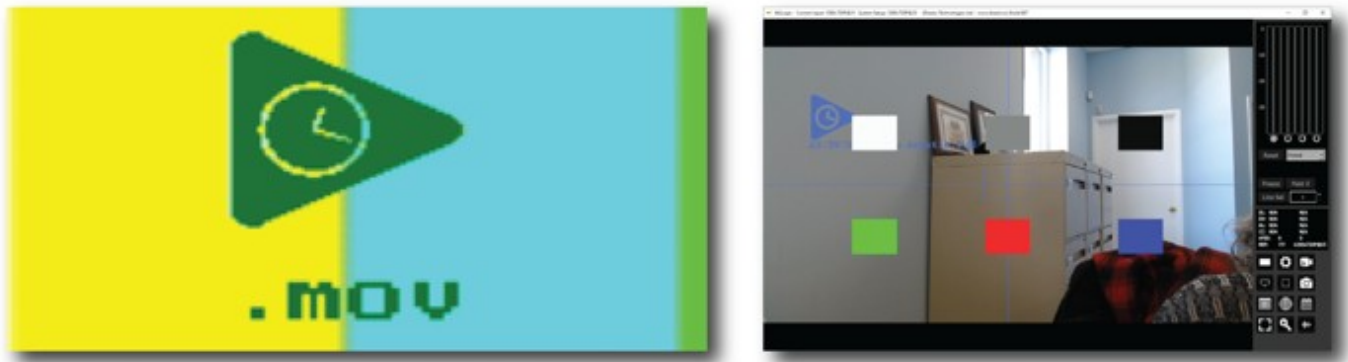
/opt/mediareactor/

Application specific plugin directories

2.3 License the Software

2.3.1 How Do I Remove the Watermarks?

If you run Drastic software without a license, many of the features will be unavailable. Also, there will be watermarks you cannot remove (image below), 10 second media duration, length of run limitations, no hardware support, nag screen, auto-shutoff, and other significant limitations. To remove these limitations, you will need a valid license.



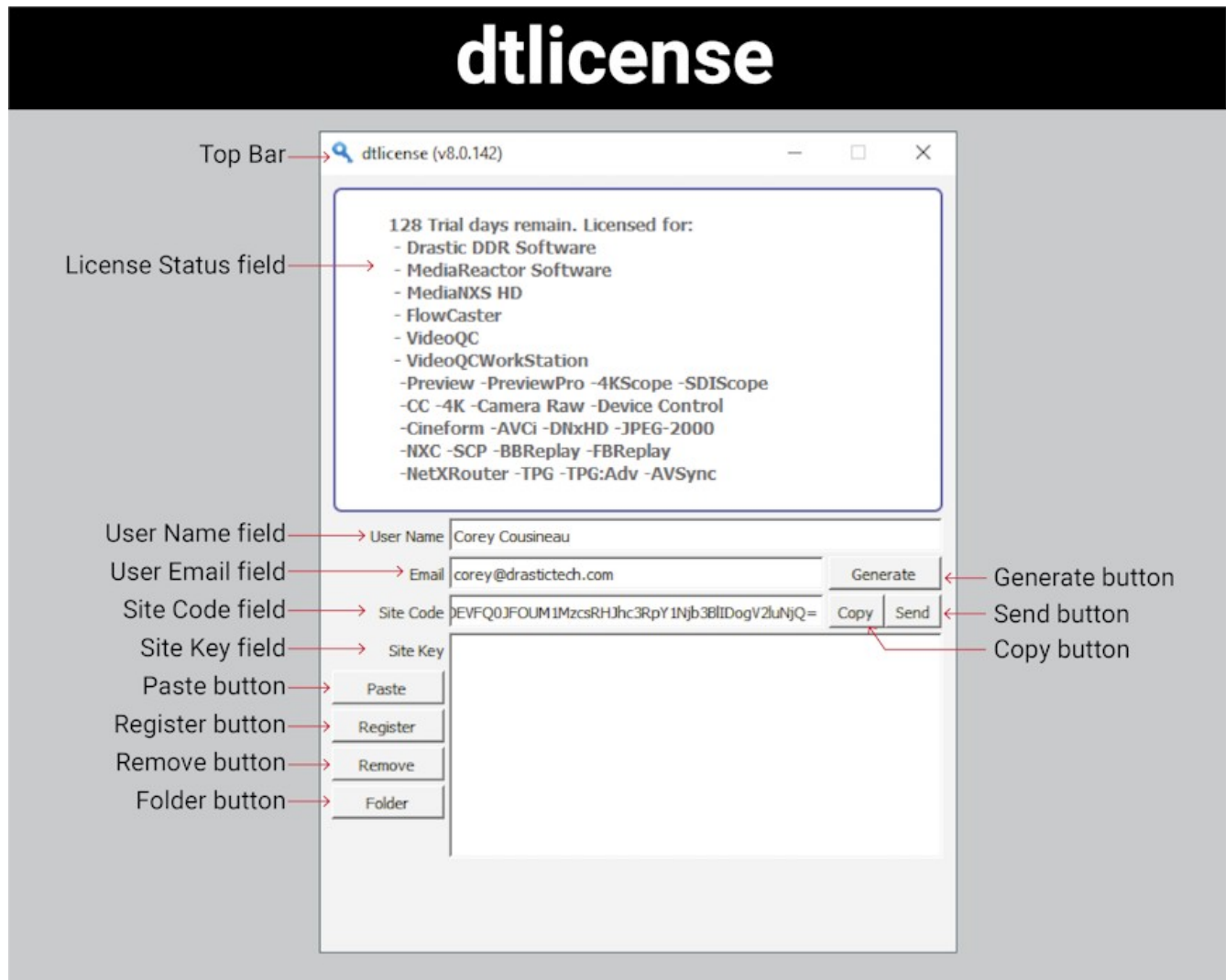
Sample watermarks

Here is how to license your installation of MediaReactor Lite for Avid:

2.3.2 Licensing for Windows

MediaReactor Lite installs an application called **LicenseMR Lite**, which is included in the program folder.

Run **LicenseMR Lite** and you will see the following interface:



- Type the user name into the **User Name** field.
- Type a valid email address into the **User Email** field. This is the email address at which the user will receive the required site key, so make sure it can be accessed by the operator of the system upon which the Drastic software is installed.
- Press the **Generate** button. This will populate the **Site Code** field with the site code. The site code is a seemingly random string of alphanumeric characters which will be used to generate the site key.

- If the system is set up with email, the user may press the **Send** button. This opens a new email addressed to Drastic with the site code in the body of the email. If the system is not set up with email, the user may copy (either select the site code and use a standard Copy command, or press the **Copy** button which is just to the right of the **Site Code** field) and paste (use a standard Paste command) the site code into a text file, and open the text file in a system that is set up with email. In this case, create a new email addressed to authorization@drastictech.com . it would be useful to type a quick explanation regarding which software is to be licensed, and the reason for the license request (such as demo, update license, add software etc.). Send the email.
- We will reply with an email containing another seemingly random string of alphanumeric characters - this will be the site key.
- Copy the site key from the email into the buffer, and paste it into the **Site Key** field, either using a standard paste command, or by pressing the **Paste** button (the button with the icon to the left of the **Remove** button).
- Press the **Register** button, and restart the software. This will update the license status and enable all the features supported by the requested license level.
- To view the folder in which the license is located, press the **Folder** button. This opens the folder containing the license, which may be useful in cases where the user may need to move or delete the license.
- The license may be removed simply by pressing the **Remove** button.
- Once the user is finished with the licensing process, they may press the **Close** button to close **Drastic Licensing** window.

The status of the license is displayed in the top field, with a list of all software and other components that have been licensed and are available for use.

2.3.3 Licensing for Linux and macOS

To access the site code using dtlicense under Linux:

Open the command line and navigate to the opt/mediareactor directory i.e `cd /opt/mediareactor`

Run the license application as a super user, i.e `sudo ./licensemr4`

After the application is opened, fill in your username and email and click on the Generate button.

This will generate the site code which you will need to send to the authorization dept to issue a site key. Paste the key in the Site Key field and click on register to activate the license.

To access the site code using dtlicense under macOS:

Go to Applications and open the MediaReactor folder. In that folder will be the LicenseMR application.

After the application is opened, fill in your username and email and click on the Generate button. This will generate the site code which you will need to send to the authorization dept to issue a site key. Paste the key in the Site Key field and click on register to activate the license.

Through DDRSetup (Linux and macOS):

There is a license app installed with MediaReactor called ddrsetup. On the command line go to its directory and type:

```
./ddrsetup -l -n "Your Name" -e "your.email@company.com"
```

In the command above, use the quotes.

Copy and paste the output and send it to authorization@drastictech.com. Drastic will reply with an email containing the Site Key.

3 Using MediaReactor Lite for Avid

MediaReactor Lite for Avid is designed to provide direct, real time editing of non editor native formats for Avid

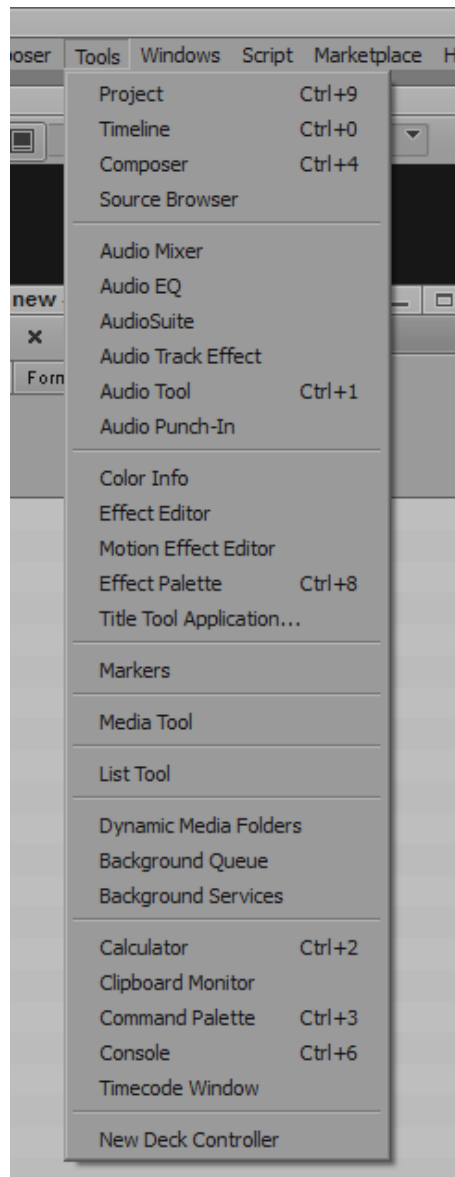
MediaReactor Lite for Avid installs a series of plugins which allow editors to add media (which would normally have required a transcoding step) directly into their editing package, and use the media as if it were a natively understood format.

3.1 ...with Avid Media Composer

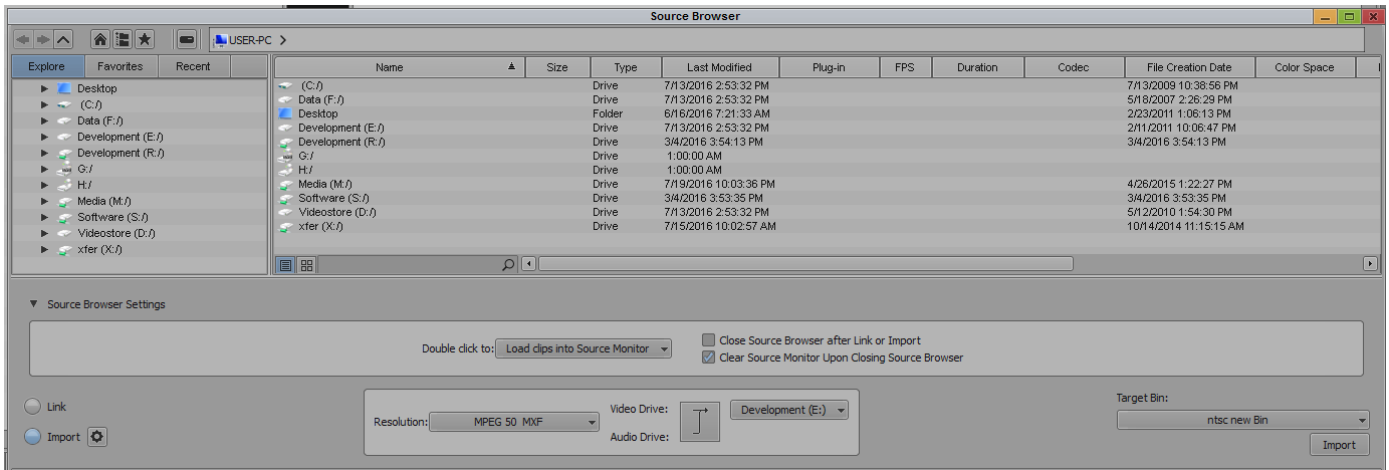
3.1.1 Avid Media Composer 8.6 and greater

In version 8.6, Avid changed the way AMA linking is done. The following section applies to linking media in versions 8.6 and onward.

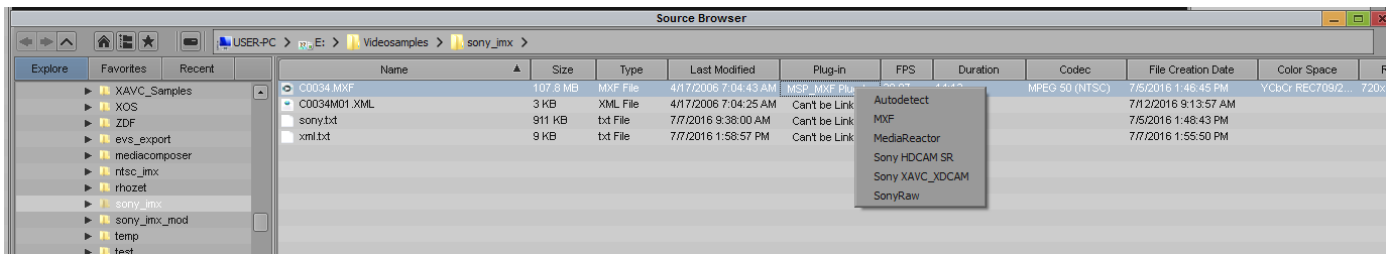
To bring a file into Avid Media Composer for editing: In the tools menu, select the Source browser.



In the source browser, make sure the AMA link is selected (button in the lower left corner), then browse to your media.

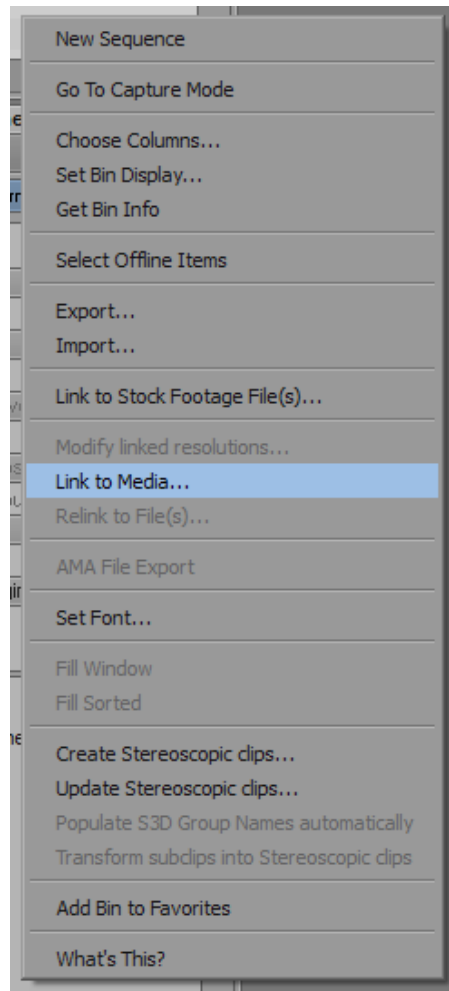


Once you have selected the media, click on the plugin section of that row to bring up the plugin choices. Select MediaReactor.



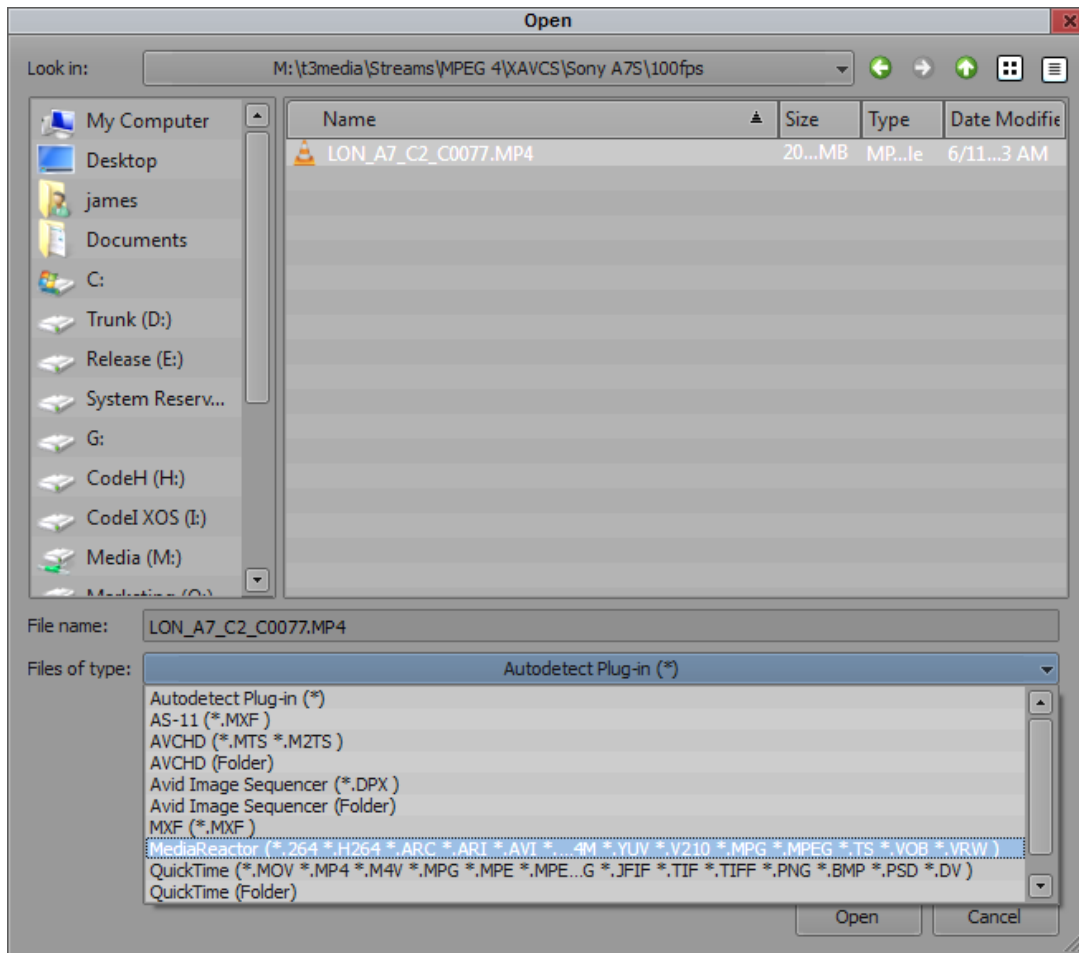
3.1.2 Avid Media Composer Before 8.6

To load a file into Avid Media Composer, right click on the bin to bring up a context menu

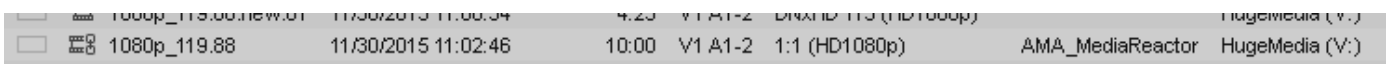


Select **Link to Media**.

In the file selection dialog, click on the Files of type pulldown menu make sure the MediaReactor line is selected.



You can then double click on the file, or click open, to bring it into the bin. If the MediaReactor plugin was not selected you will see Unsupported Format in the bin and Wrong Format when you try to play it. If it is loaded properly, the bin should have a line that looks like this:



Avid Media Composer 6 (Symphony, NewsCutter)

To bring a file into the editor, right click on the bin and select the Link To AMA Files... menu and select the file. This menu is also available under the File menu. If your source files are on a network drive, you need enable this in Media Composer. Open a Console window (menu Tools | Console) and type 'alldrives' without the quotes and hit Return. This only needs to be done once.

3.1.2.1 Compressor

To convert from an MRWS file, create an output profile and drag the source file on top of the output profile and drop it.

3.1.2.2 Motion

To use an MRWS file in Motion, simply use the built in browser to find and select the file. Supported files will appear as a picture of one of the frames in the browser.

3.2 Accessing S3/HTTP/HTTPS Assets with .STREAM Files

Normally, Adobe Premiere, After Effects, Media Encoder, etc. require a physical file to be located on a standard file system, shared or local. MediaReactor Lite (and MediaReactor Workstation) allow all these software products to edit files directly from S3/HTTP/HTTPS file stores. The magic is performed by tiny local text files with the extension .stream. These are encrypted or unencrypted descriptions of the file's actual location, saved on a local or accessible network storage for Adobe to use.

3.2.1 Direct Access to Cloud Assets

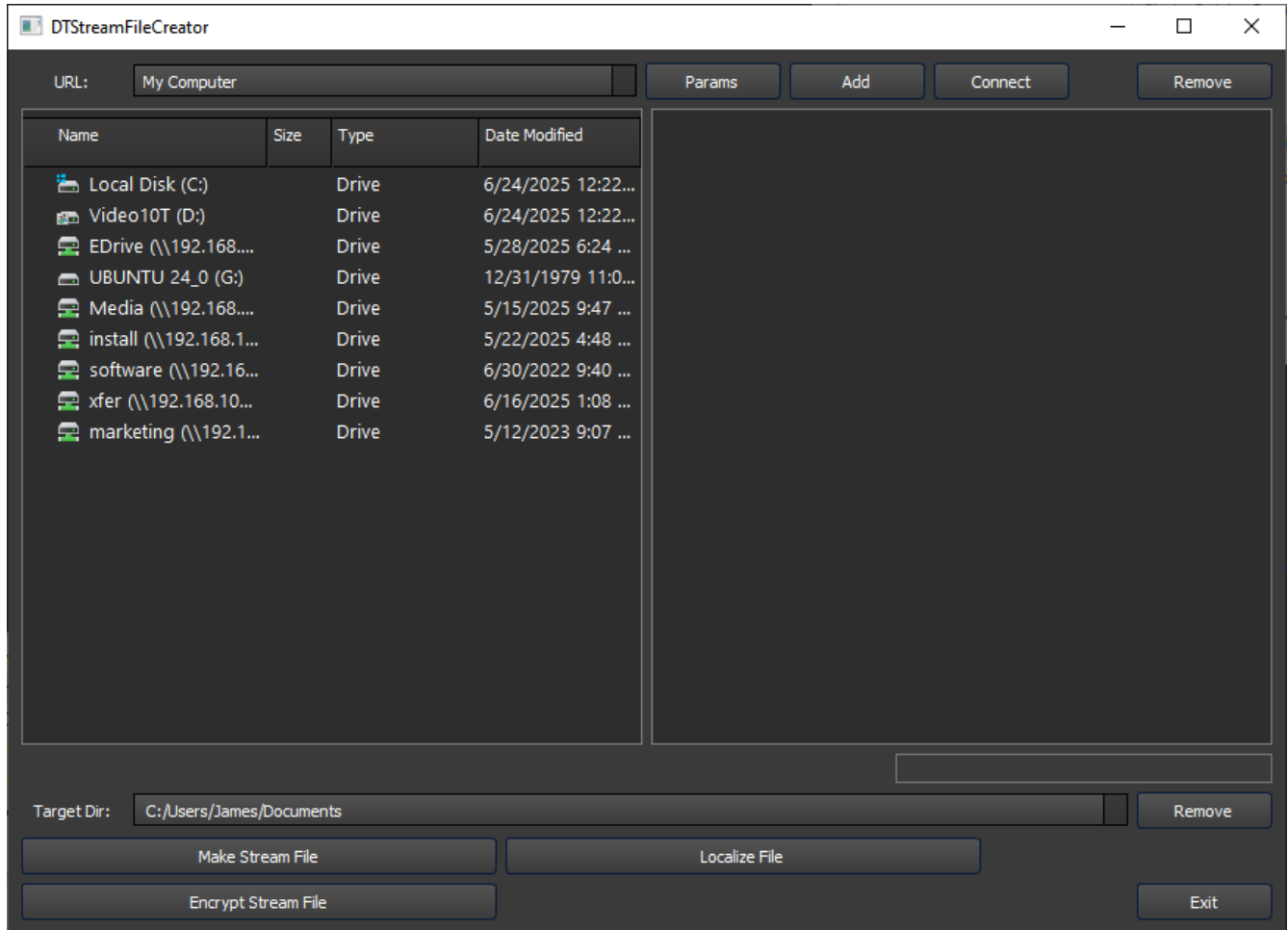
Adobe Premiere uses files, and cannot see ephemeral assets, such as streams on an S3 or HTTPS provider. Typically video files are into the hundred of MBs, sometimes GBs, so there is both a delay, and an added cost, to download a file from S3 before opening a local copy (and to upload it after saving).

Other companies have used proxy files with subsequent conform to mitigate the delay (and cost) editors face using cloud storage solutions. Drastic lets you access these files directly, with frame accurate time code, closed captions, and metadata intact. Now you can fully realize the advantages of a cloud based content creation workflow with immediate access to your media. Simply pass video data to and from S3 as required rather than dealing only with the local file system.

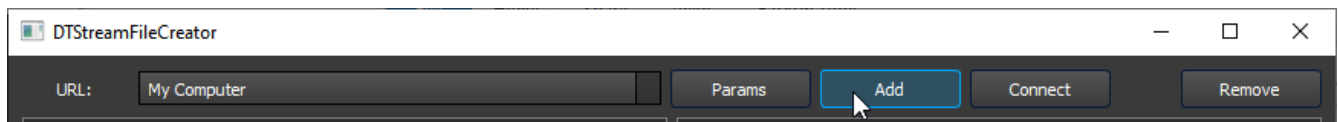
Drastic software products support direct access to cloud resources using HTTP, HTTPS, S3, and other file sharing methods. For the most part, the path to these files is a URL (e.g. <https://someserver/somefile>). Most software editing packages including Adobe's require that the file be directly accessible on local or network storage to be used. MediaReactor uses ".stream" files to bridge this gap and allow Adobe to read the file directly.

3.2.2 DTStreamFileCreator for S3 Access

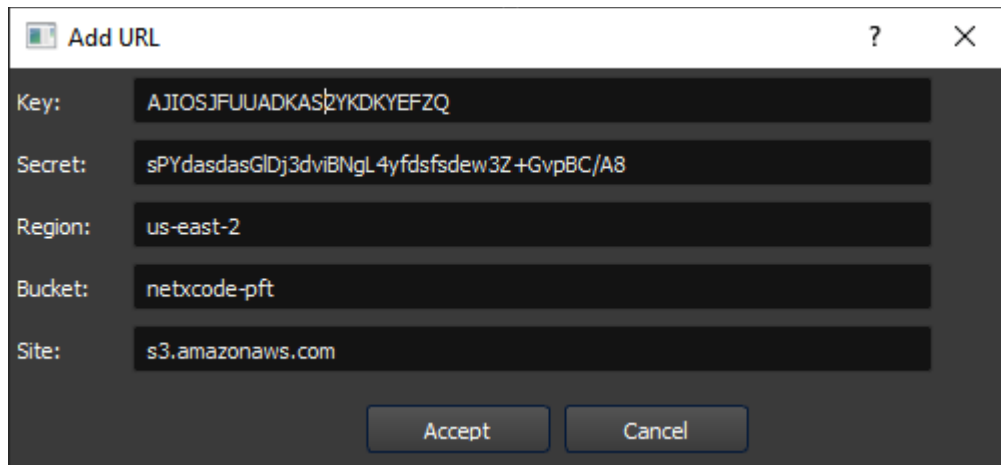
Run **DTStreamFileCreator**. It will be located in the same folder as the Drastic software it is being used with, e.g. C:\Program Files\MediaReactor\DTStreamFileCreator.exe.



Click the **Add** button to add a new S3 site.



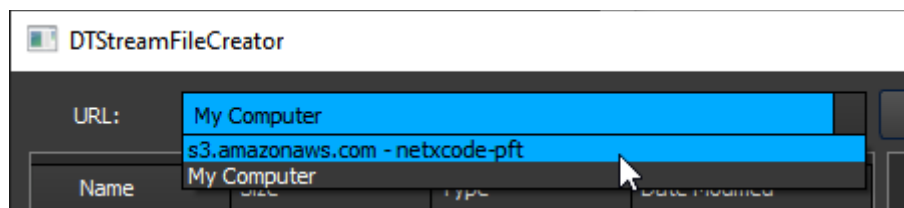
This opens the **Add URL** window, where you can enter the details of the S3 assets.



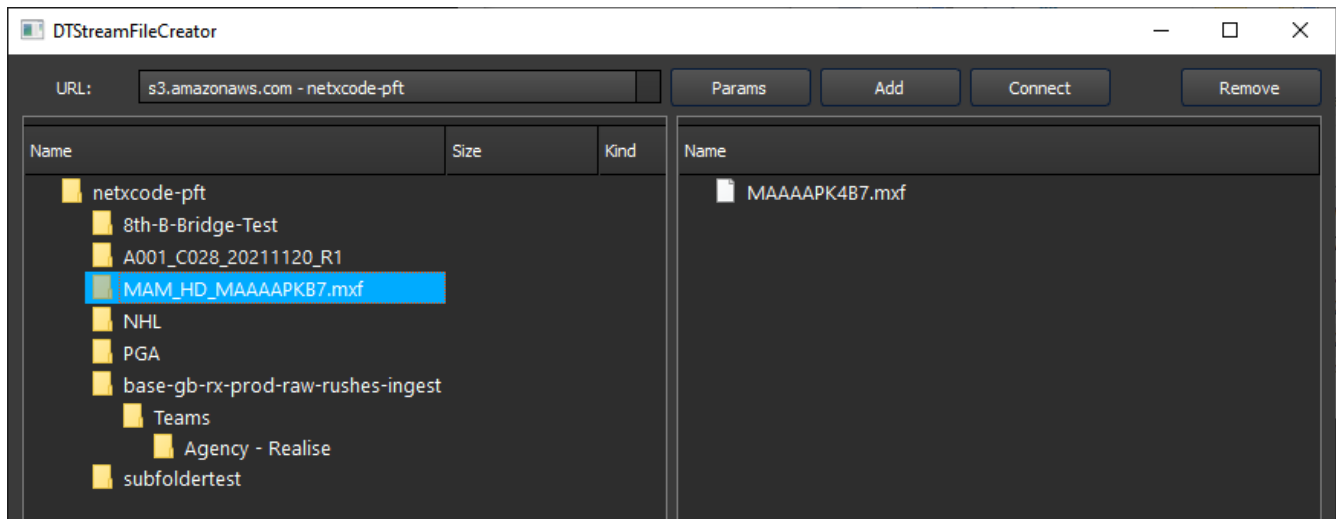
The parameters that need to be specified are:

- Key
- Secret
- Region
- Bucket
- Site

Once all the details have been entered, press the **Accept** button to create the .stream file. It will then appear in the dropdown, available for selection.



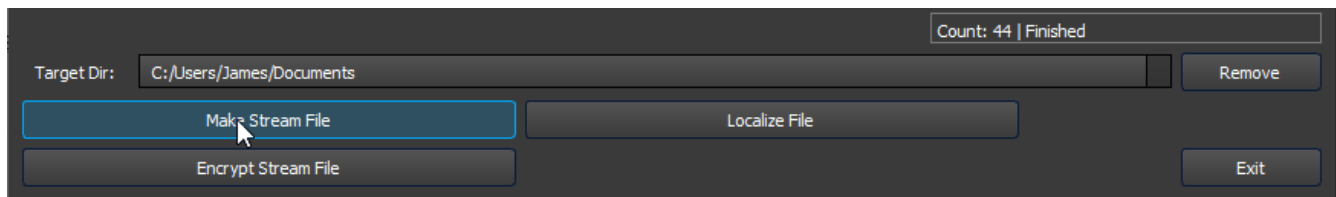
Select it, and click **Connect**. A properly formed .stream file will then show you the folder tree structure for the S3 assets you have specified.



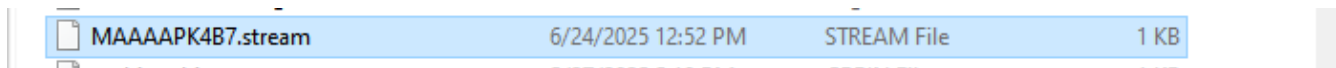
Select a file, and you will then be able to perform one of three actions.

3.2.2.1 Make Stream File

Make Stream File - the most common workflow. Make a .stream file to use for Adobe S3 access.



The .stream file is quite small, typically weighing in at 1KB.



Inside the file will be something like:

s3://AKdsadasddsadsaFZQ:dSCPYYlwhlJGasfsafasfsavpBC/[A8@s3.amazonaws.com/netxcode-pft/MAAAAAPK4B77.mxf](https://s3.amazonaws.com/netxcode-pft/MAAAAAPK4B77.mxf) (this is not a real link btw)

3.2.2.2 Localize File

Localize File - copy a file to your target directory

3.2.2.3 Encrypt Stream

Encrypt Stream - make a .stream file as above, but also encrypt its contents so its details cannot be intercepted. Instead of a file with the actual data (which could be pilfered), its contents would look more like:

```
:xa0UBaxtGQDQPPBk9cDZxP2UhZj1gOBxSAVwNTxZNCUddGGkqeyB6EmAOZSdpD0AmGHILciF9  
CVFwHzFcFlpyNAJbMmlBYE8PNXYBNx95HHQEYAJuF2tVJ1okH2QXdBRuG2QdLUM6bmAPTgJf  
FFQORQNKAkkSVRojAn8WYI4HUwRSC0ITPGJleApSFQ==
```

Direct access without a rootkey.csv is also supported by providing the ID:SecretKey on the URL before the site. The two parts must be separated by a colon (:), and the site name must be separated with an at sign (@): https://<id>:<secret>@s3.amazon.com/<bucket>/<file>.

```
https://MEOWJDNGFSUIGNWCAT:djJFASTjfwowf8473sdjhH@s3.amazonaws.com/netxcode-  
pft/sourceABR.mp4
```

For more information on setting S3 and Object Storage access, please see

[Setting up Amazon S3 AWS Access](#)

3.3 Import Control

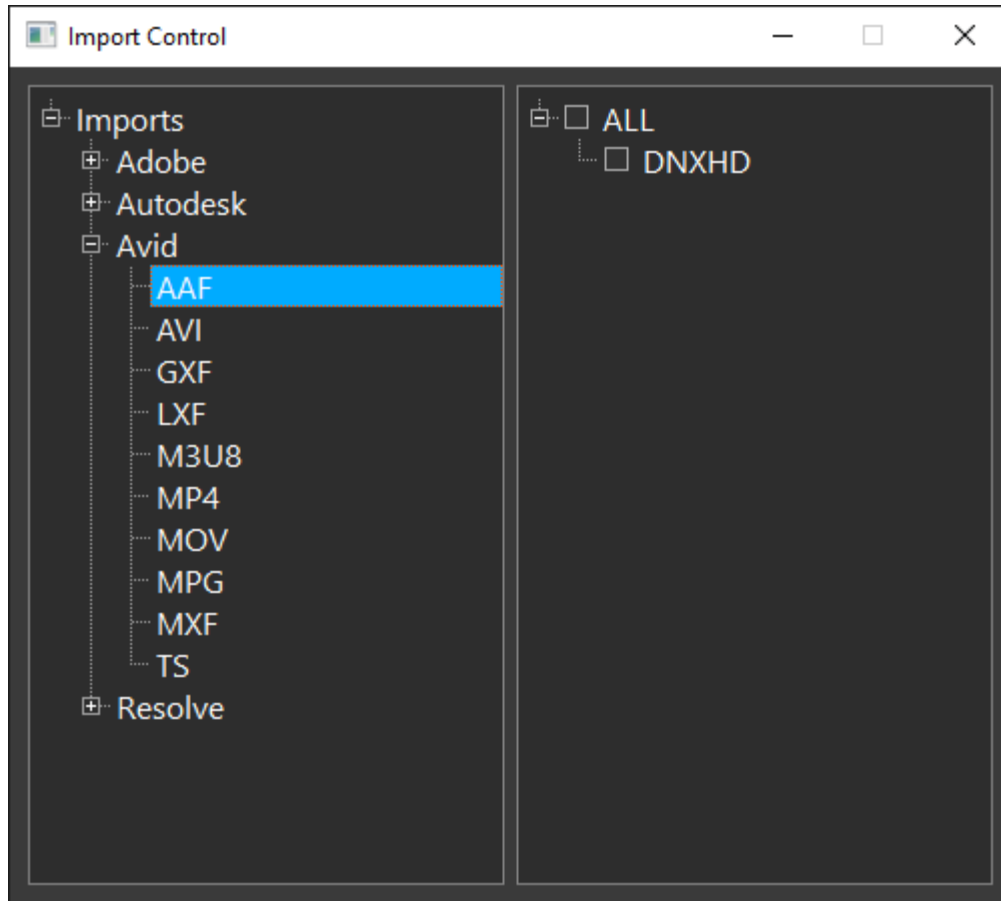
MediaReactor Lite for Avid includes an Import Control exe to set the specific types of files to import. For several import types, the user can set which file types to show on import operations.

The Import Control is designed to limit the file types shown on an import dialog to the ones you need. Selecting a checkbox specifies that type will be available to import. If no checkboxes are selected, all types will be shown.

Also, the Import Control dialog is limited to the formats supported by the version. In MediaReactor Lite, only a subset of these formats is supported.

3.3.1 AAF

Avid's **Advanced Authoring Format**. AAF is an audio file type used by Avid audio editing and production software products such as Avid Pro Tools and Avid Media Composer.

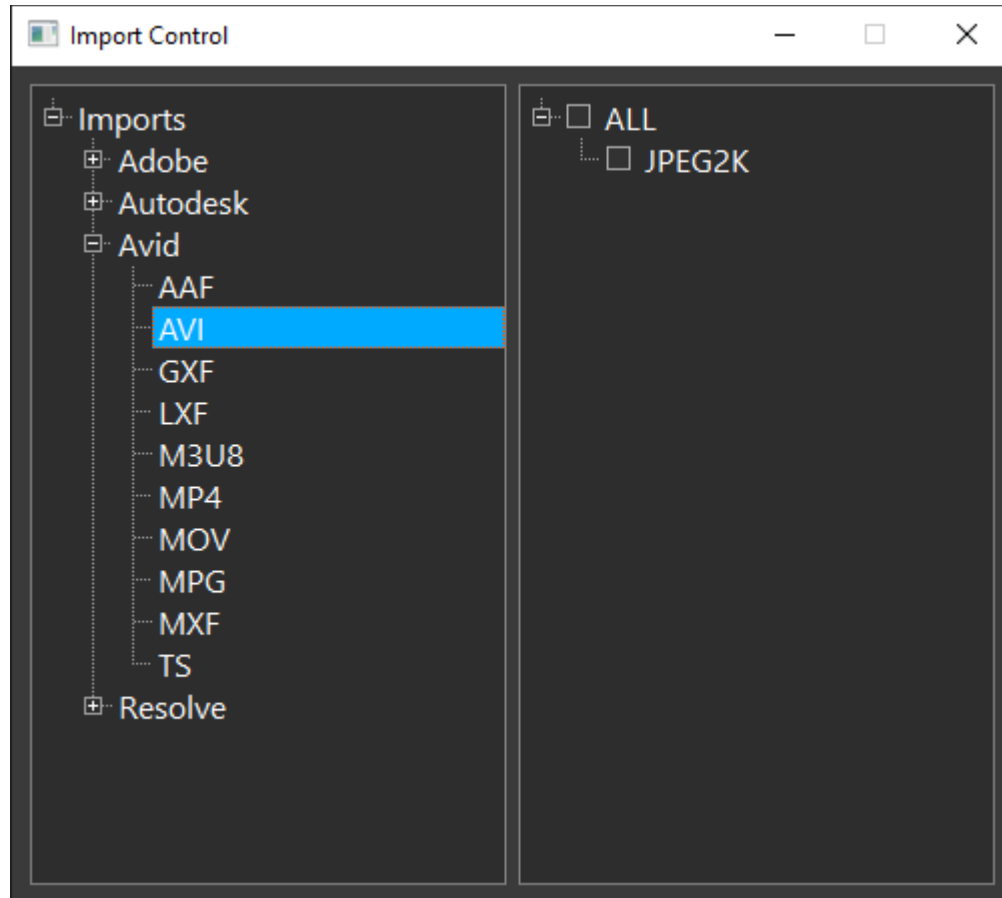


ALL checkbox – check to specify all AAF files should be available.

DNXHD checkbox – check to specify DNxHD AAF types should be available.

3.3.2 AVI

Audio Video Interleave – an industry standard file type.

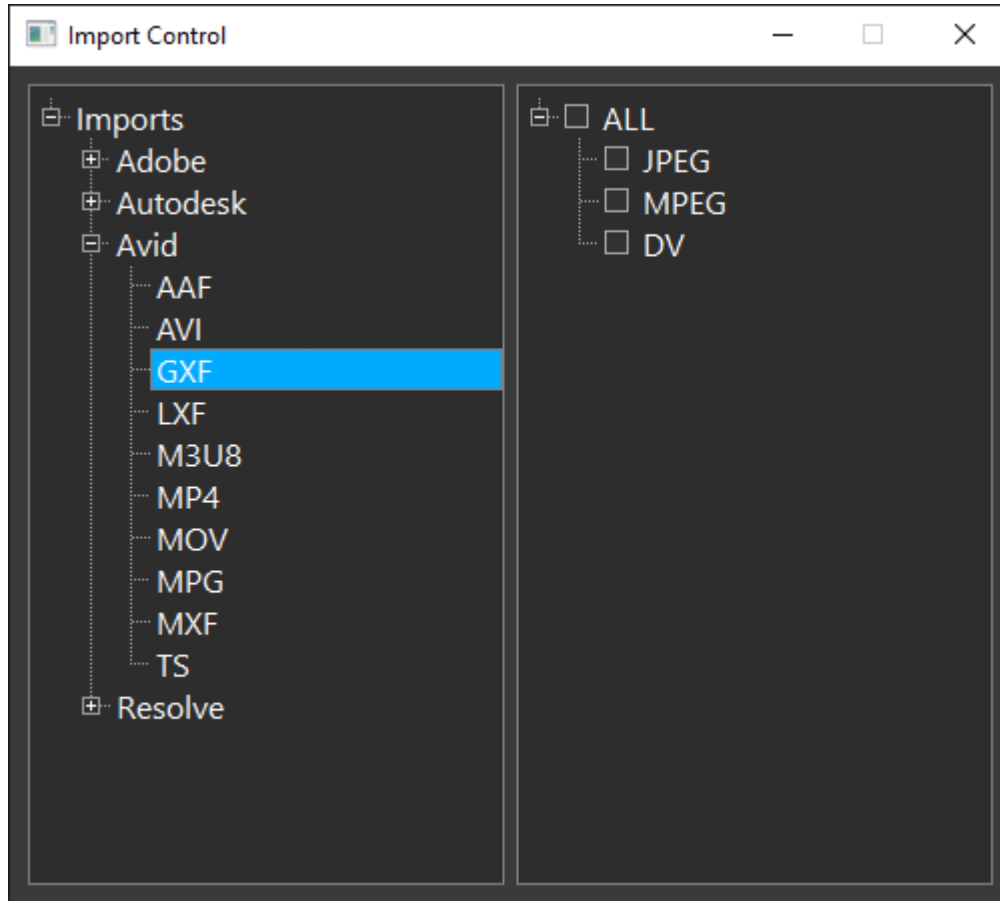


ALL checkbox – check to specify all AVI files should be available.

JPEG2K checkbox – check to specify JPEG2K AVI types should be available.

3.3.3 GXF

General Exchange Format – GXF was developed by Grass Valley Group.



ALL checkbox – check to specify all GXF files should be available.

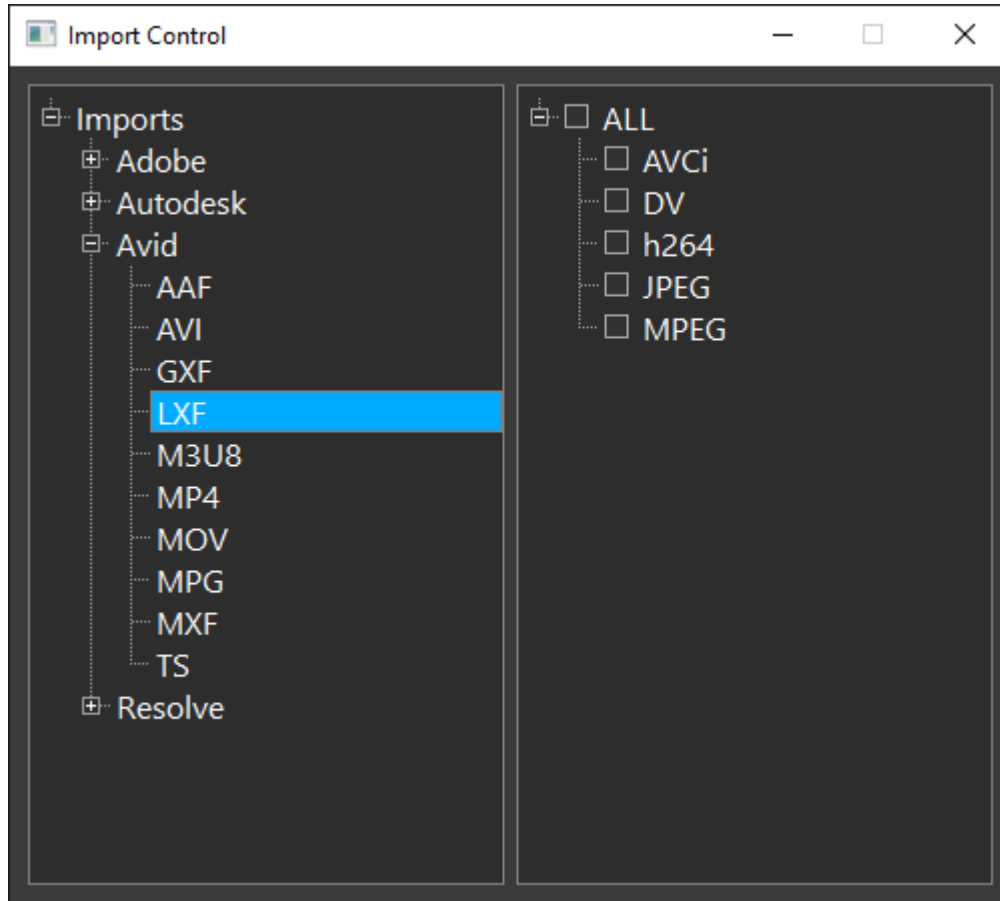
JPEG checkbox – check to specify JPEG2K GXF types should be available.

MPEG checkbox – check to specify MPEG2K GXF types should be available.

DV checkbox – check to specify DV GXF types should be available.

3.3.4 LXF

LXF - the **Leitch/Harris Exchange Format** for Nexio servers.



ALL checkbox – check to specify all LXF files should be available.

AVCi checkbox – check to specify AVCi LXF types should be available.

DV checkbox – check to specify DV LXF types should be available.

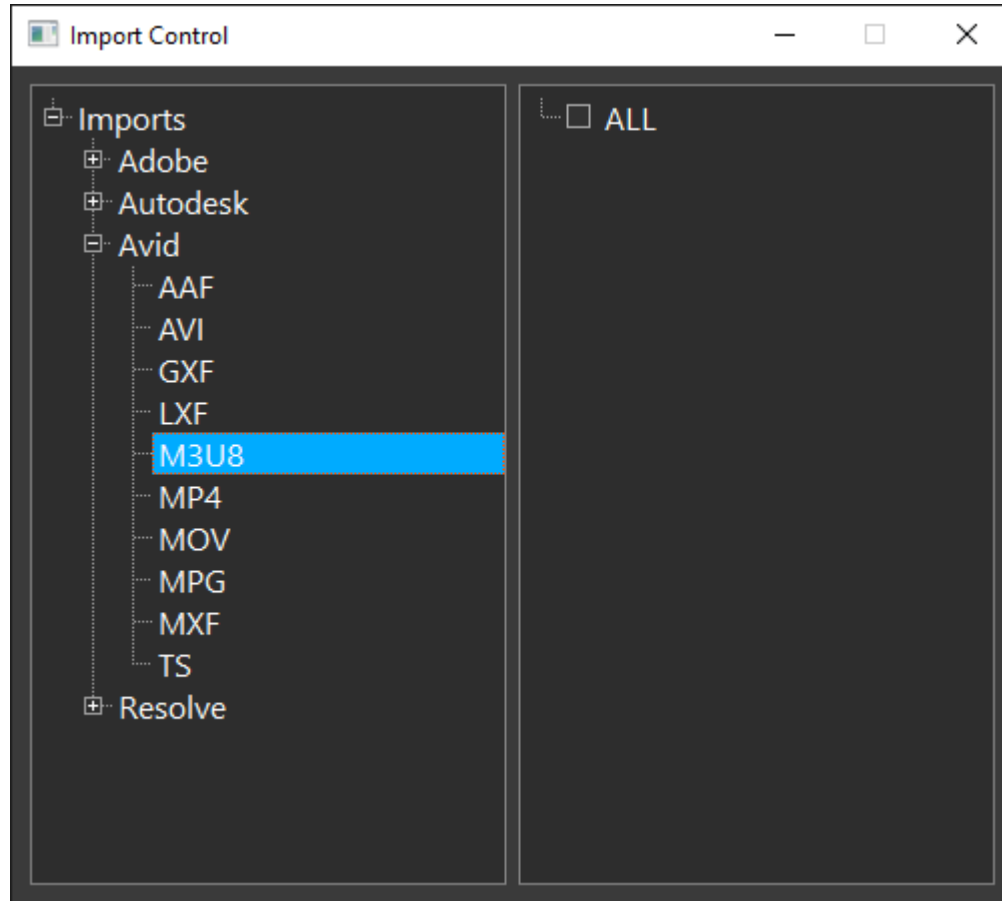
h264 checkbox – check to specify h.264 LXF types should be available.

JPEG checkbox – check to specify JPEG LXF types should be available.

MPEG checkbox – check to specify MPEG LXF types should be available.

3.3.5 M3U8

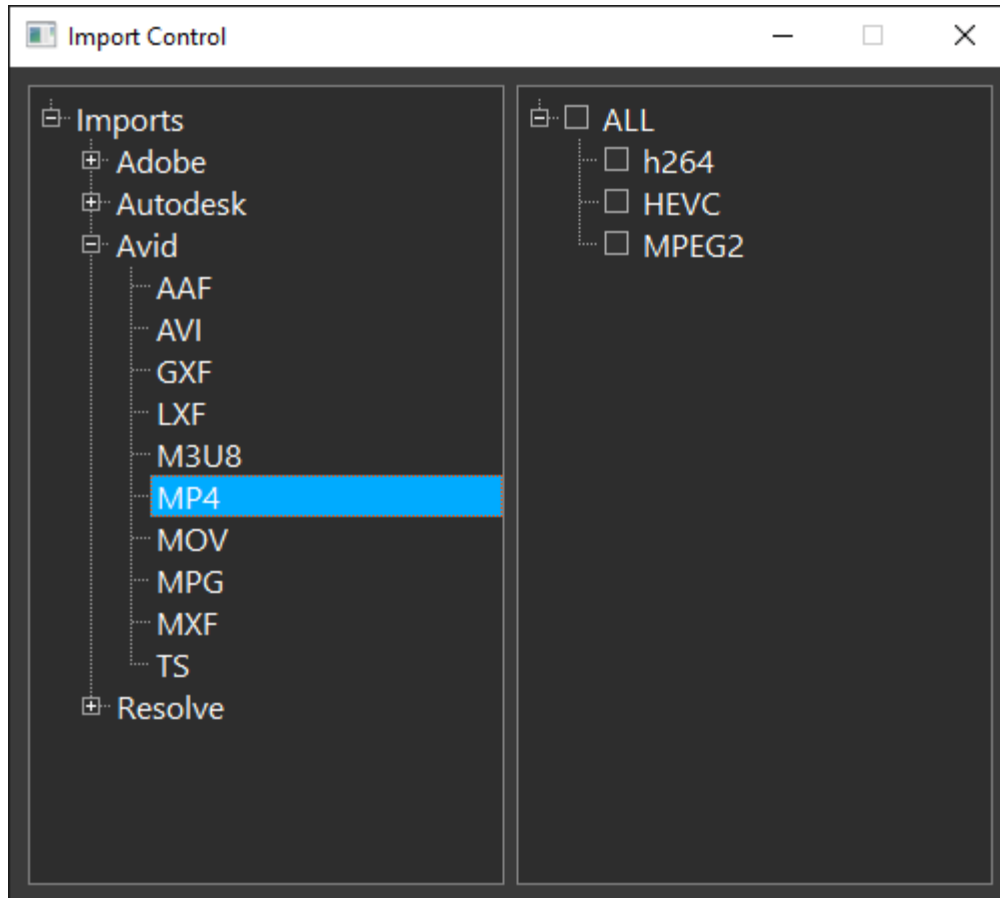
An M3U8 file is a playlist file used primarily for multimedia streaming.



ALL checkbox – check to specify all M3U8 files should be available.

3.3.6 MP4

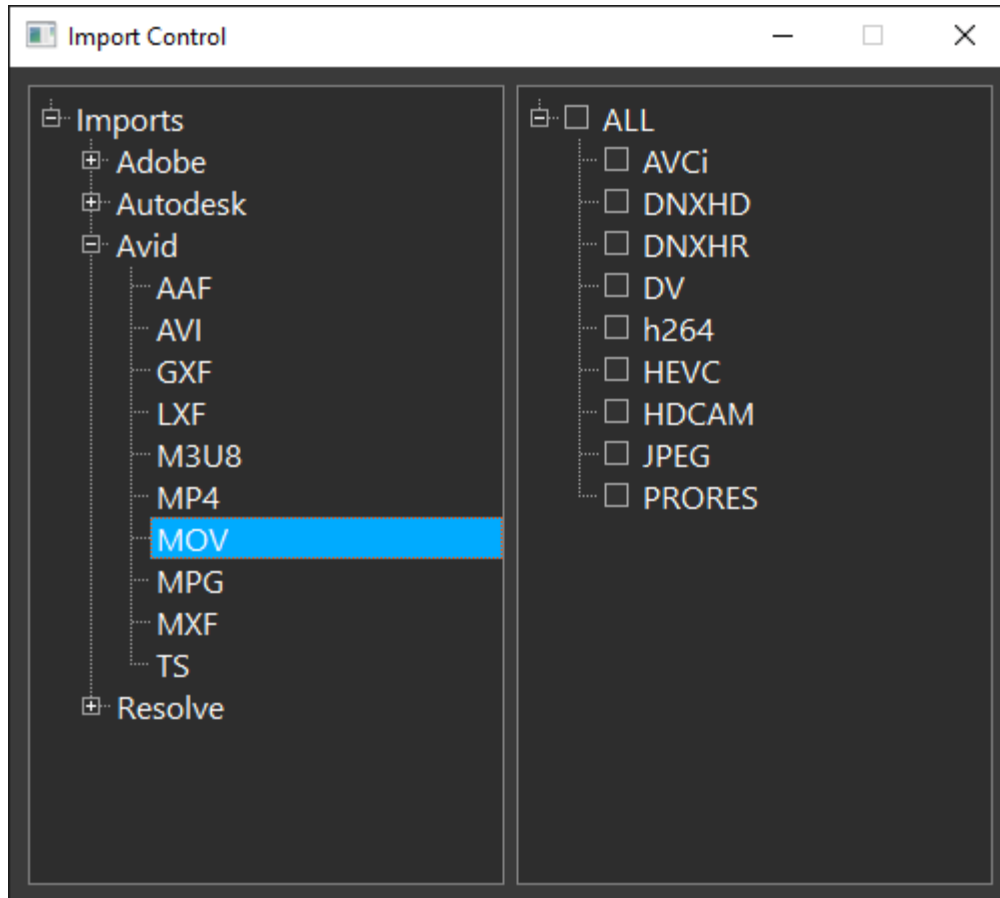
MP4 (formally MPEG-4 Part 14) is a digital multimedia container format most commonly used to store video and audio, but it can also be used to store other data.



- ALL** checkbox – check to specify all MP4 files should be available.
- h264** – check to specify h.264 MP4 types should be available.
- HEVC** – check to specify HEVC MP4 types should be available.
- MPEG2** – check to specify MPEG-2 MP4 types should be available.

3.3.7 MOV

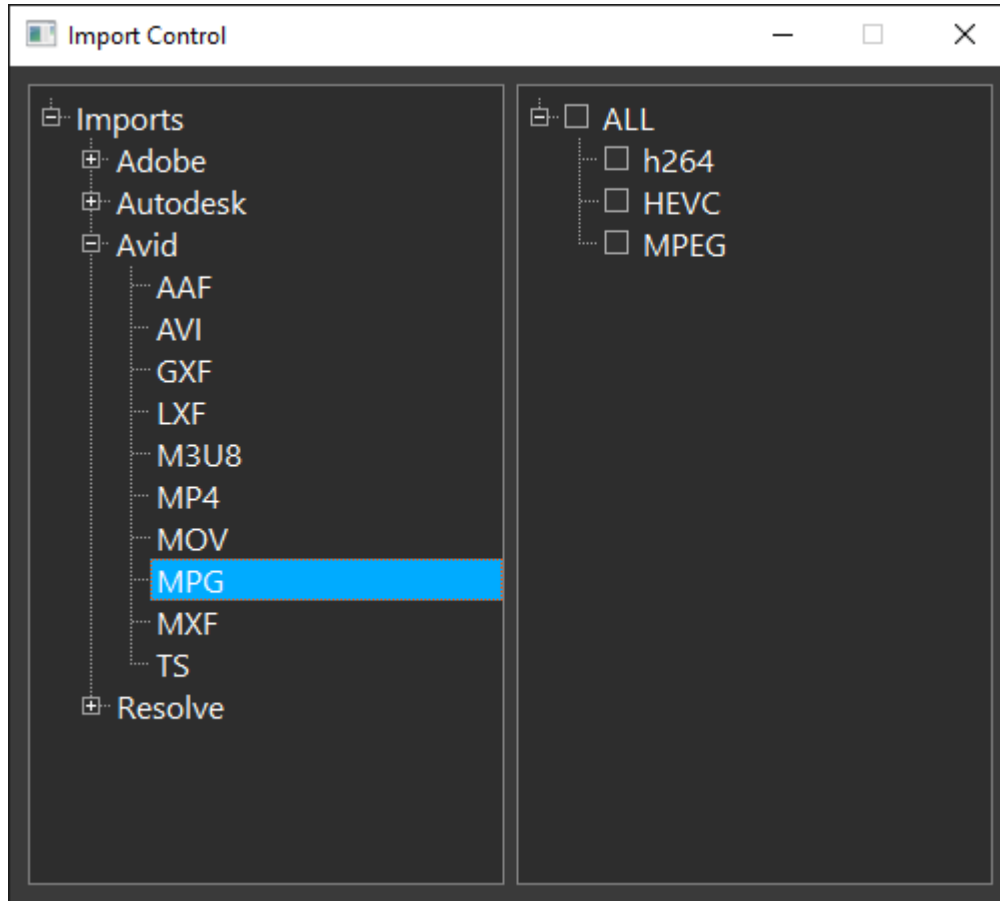
QuickTime File Format (QTFF) is a computer file format used natively by the QuickTime framework. QuickTime Movie.



- ALL** checkbox – check to specify all MOV files should be available.
- AVCi** – check to specify AVCi MOV types should be available.
- DNxHD** – check to specify DNhXD MOV types should be available.
- DNxHR** – check to specify DNxHR MOV types should be available.
- DV** – check to specify DV MOV types should be available.
- h264** – check to specify h.264 MOV types should be available.
- HEVC** – check to specify HEVC MOV types should be available.
- HDCAM** – check to specify HDCAM MOV types should be available.
- JPEG** – check to specify JPEG MOV types should be available.
- PRORES** – check to specify ProRes MOV types should be available.

3.3.8 MPG

MPG is a container format for multiplexing digital audio, video and more.



ALL checkbox – check to specify all MPG files should be available.

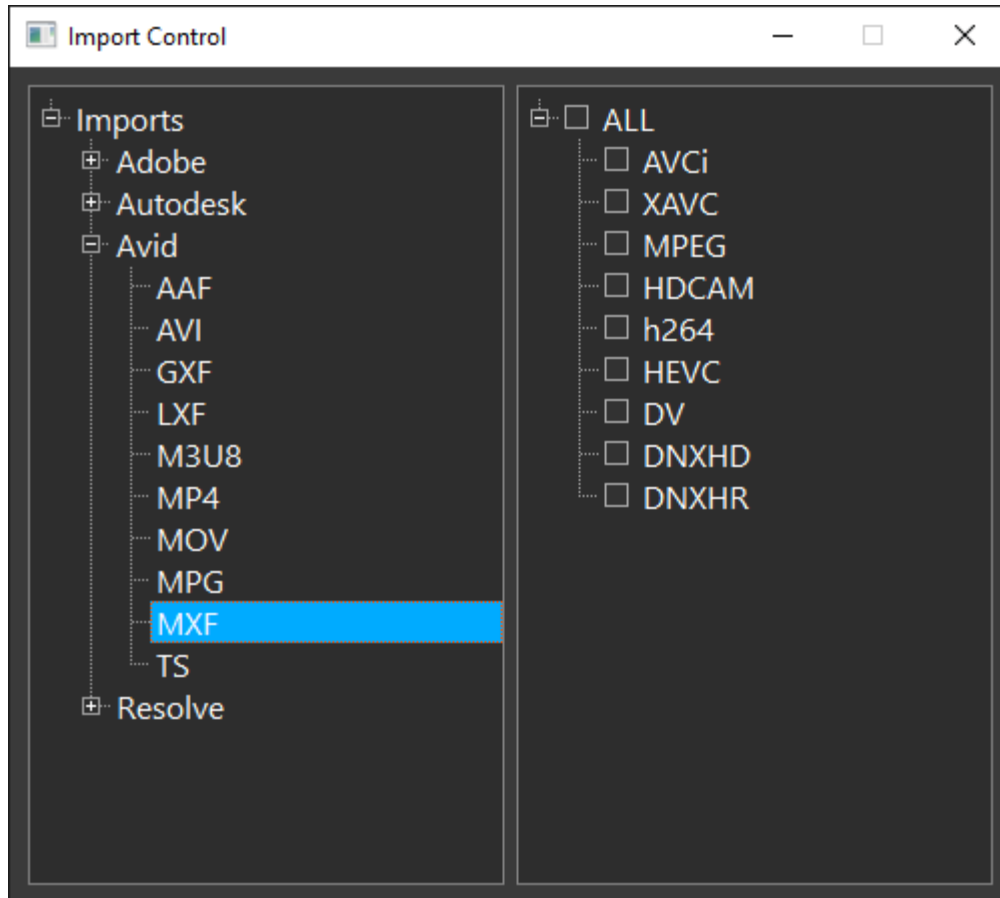
h264 – check to specify h.264 MPG types should be available.

HEVC – check to specify HEVC MPG types should be available.

MPEG – check to specify MPEG MPG types should be available.

3.3.9 MXF

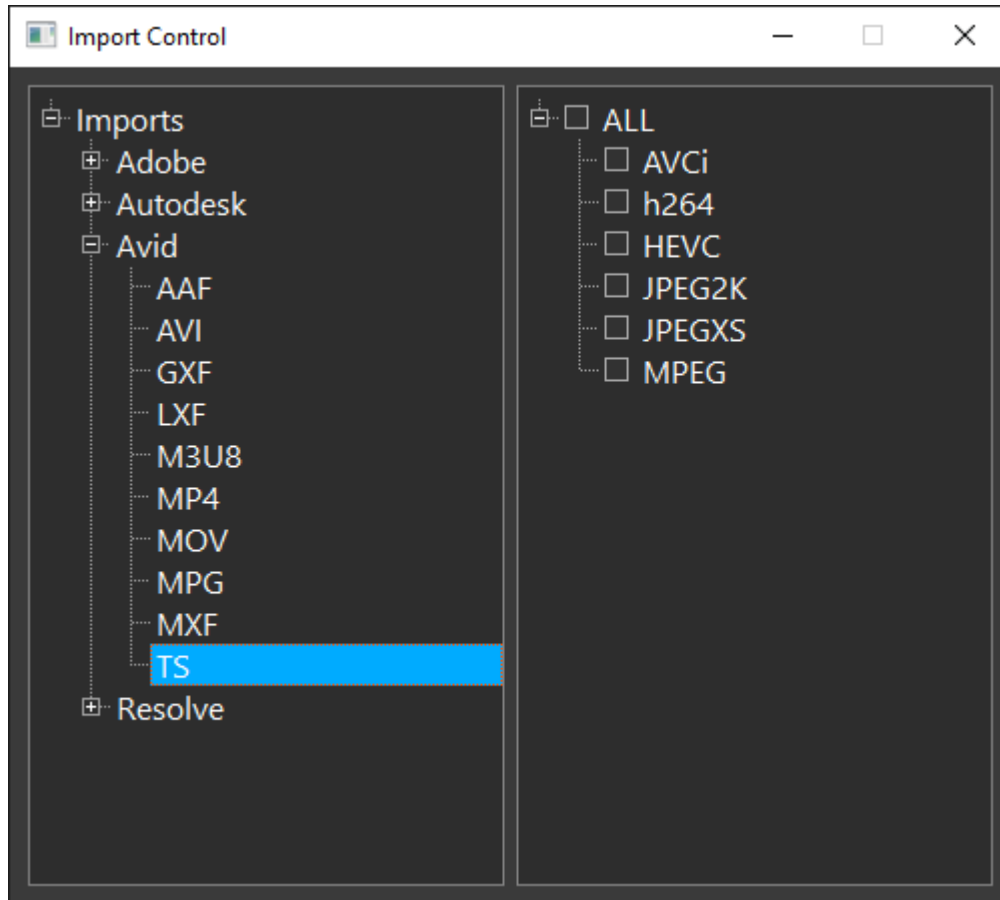
Material Exchange Format (MXF) is a container format for professional digital video and audio media defined by a set of SMPTE standards.



- ALL** checkbox – check to specify all MXF files should be available.
- AVCi** – check to specify AVCi MXF types should be available.
- XAVC** – check to specify XAVC MXF types should be available.
- MPEG** – check to specify MPEG MXF types should be available.
- HDCAM** – check to specify HDCAM MXF types should be available.
- h264** – check to specify h.264 MXF types should be available.
- HEVC** – check to specify HEVC MXF types should be available.
- DV** – check to specify DV MXF types should be available.
- DNxHD** – check to specify DNxHD MXF types should be available.
- DNxHR** – check to specify DNxHR MXF types should be available.

3.3.10 TS

MPEG transport stream (MPEG-TS, MTS) or simply transport stream (TS) is a standard digital container format for transmission and storage of audio, video, and Program and System Information Protocol data. It is used in broadcast systems such as DVB, ATSC and IPTV.



- ALL** checkbox – check to specify all TS files should be available.
- AVCi** – check to specify AVCi TS types should be available.
- h264** – check to specify h.264 TS types should be available.
- HEVC** – check to specify HEVC TS types should be available.
- JPEG2K** – check to specify JPEG2K TS types should be available.
- JPEGXS** – check to specify JPEG XS TS types should be available.
- MPEG** – check to specify MPEG TS types should be available.

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Drastic Technologies Ltd
523 The Queensway, Suite 201
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