

XPression

XPression INcoder User Guide

Version 11.0

Thank You for Choosing Ross

You've made a great choice. We expect you will be very happy with your purchase of Ross Technology.

Our mission is to:

1. Provide a Superior Customer Experience
 - offer the best product quality and support
2. Make Cool Practical Technology
 - develop great products that customers love

Ross has become well known for the Ross Video Code of Ethics. It guides our interactions and empowers our employees. I hope you enjoy reading it below.

If anything at all with your Ross experience does not live up to your expectations be sure to reach out to us at solutions@rossvideo.com.



David Ross
CEO, Ross Video
dross@rossvideo.com

Ross Video Code of Ethics

Any company is the sum total of the people that make things happen. At Ross, our employees are a special group. Our employees truly care about doing a great job and delivering a high quality customer experience every day. This code of ethics hangs on the wall of all Ross Video locations to guide our behavior:

1. We will always act in our customers' best interest.
2. We will do our best to understand our customers' requirements.
3. We will not ship crap.
4. We will be great to work with.
5. We will do something extra for our customers, as an apology, when something big goes wrong and it's our fault.
6. We will keep our promises.
7. We will treat the competition with respect.
8. We will cooperate with and help other friendly companies.
9. We will go above and beyond in times of crisis. *If there's no one to authorize the required action in times of company or customer crisis - do what you know in your heart is right. (You may rent helicopters if necessary.)*

XPression INcoder - User Guide

- Ross Part Number: **3500DR-017-11.0**
- Release Date: August 23, 2022.
- Software Issue: **11.0**

The information contained in this Guide is subject to change without notice or obligation.

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Patents

Patent numbers US 7,034,886; US 7,508,455; US 7,602,446; US 7,802,802 B2; US 7,834,886; US 7,914,332; US 8,307,284; US 8,407,374 B2; US 8,499,019 B2; US 8,519,949 B2; US 8,743,292 B2; GB 2,419,119 B; GB 2,447,380 B; and other patents pending.

Notice

The material in this manual is furnished for informational use only. It is subject to change without notice and should not be construed as commitment by Ross Video Limited. Ross Video Limited assumes no responsibility or liability for errors or inaccuracies that may appear in this manual.

Third Party Licenses

XPression INcoder makes use of FFmpeg licensed under the LGPLv2.1 and its source can be downloaded [here](#).

FFmpeg was configured with the following options:

```
---pkg-config=pkg-config --pkg-config-flags=static
--extra-version=ffmpeg-windows-build-helpers
--disable-debug --disable-w32threads --arch=x86 --target-os=mingw32
--cross-prefix=/root/src/sandbox/cross_compilers/mingw-w64-i686/bin/i686-w64-mingw32
--enable-gray --enable-libopus --enable-libsnappy --enable-libsoxr --enable-libtheora
--enable-libvorbis --enable-libwebp --enable-libzimg --enable-libopenjpeg
--enable-libopenh264 --enable-libxml2 --enable-libdav1d --enable-cuda-llvm
--enable-libvpx --enable-nvenc --enable-nvdec --extra-libs=-lm --extra-libs=-lpthread
--extra-cflags=-DLIBTWOLAME_STATIC --extra-cflags=-DMODPLUG_STATIC
--extra-cflags=-DCACA_STATIC
--disable-amf --enable-libmfx --enable-avresample --extra-cflags='-mtune=generic'
--extra-cflags=-O3 --enable-shared --disable-static
--prefix=/root/src/sandbox/win32/ffmpeg_git_lgpl_n4.3.2_shared
```

A patch of changes to FFMPEG 4.3.2 is available in the downloaded source as xpvnc_win.patch.

Warranty and Repair Policy

Ross Video Limited (Ross) warrants its XPression systems to be free from defects under normal use and service for the following time periods from the date of shipment:

- **XPression Server** — 12 months
- **XPression Software Upgrades** — 12 months free of charge
- **System and Media hard drives** — 12 months

If an item becomes defective within the warranty period Ross will repair or replace the defective item, as determined solely by Ross.

Warranty repairs will be conducted at Ross, with all shipping FOB Ross dock. If repairs are conducted at the customer site, reasonable out-of-pocket charges will apply. At the discretion of Ross, and on a temporary loan basis, plug in circuit boards or other replacement parts may be supplied free of charge while defective items undergo repair. Return packing, shipping, and special handling costs are the responsibility of the customer.

This warranty is void if products are subjected to misuse, neglect, accident, improper installation or application, or unauthorized modification.

In no event shall Ross Video Limited be liable for direct, indirect, special, incidental, or consequential damages (including loss of profit). Implied warranties, including that of merchantability and fitness for a particular purpose, are expressly limited to the duration of this warranty.

This warranty is TRANSFERABLE to subsequent owners, subject to Ross' notification of change of ownership.

Extended Warranty

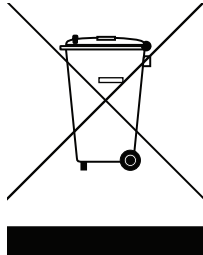
For customers that require a longer warranty period, Ross offers an extended warranty plan to extend the standard warranty period by one year increments. For more information about an extended warranty for your XPression system, contact your regional sales manager.

Environmental Information

The equipment that you purchased required the extraction and use of natural resources for its production. It may contain hazardous substances that could impact health and the environment.

To avoid the potential release of those substances into the environment and to diminish the need for the extraction of natural resources, Ross Video encourages you to use the appropriate take-back systems. These systems will reuse or recycle most of the materials from your end-of-life equipment in an environmentally friendly and health conscious manner.

The crossed-out wheeled bin symbol invites you to use these systems.



If you need more information on the collection, reuse, and recycling systems, please contact your local or regional waste administration.

You can also contact Ross Video for more information on the environmental performances of our products.

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E-mail for General Information: solutions@rossvideo.com

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Introduction

Ingest and transcoding with multi-target publishing:

XPression INcoder is a high-powered file-based ingest and transcoder application that sorts out your difficulties when confronted with multiple codecs. Simply drop or render a file into one of XPression INcoder's intelligent watch folders and you're done! INcoder works in the background to quickly transcode the clip into the highly-efficient XPression Video Codec - which supports video, key, and up to 16 channels of audio – and then delivers it for playout using its multi-target publishing capability. Destinations can include: the XPression Clip Database where it's automatically registered into the file list and metadata recorded, a NAS or SAN storage system, or any file location across a network.

About This Guide

This user guide describes the XPression INcoder, its installation, configuration, and functions.

If, at any time, you have a question pertaining to the installation, configuration, or operation of the XPression INcoder, please contact us at the numbers listed in the section “**Contacting Technical Support**” on page 1–2. Our technical staff are always available for consultation, training, or service.

Documentation Conventions

Special text formats are used in this guide to identify parts of the user interface, text that a user must enter, or a sequence of menus and submenus that must be followed to reach a particular command.

Bold text	Bold text is used to identify a user interface element such as a dialog box, menu item, or button. For example: In the 3D Model Files section, use the Mode list to select the folder used to store 3D model files.
<code>Courier text</code>	Courier text is used to identify text that a user must enter. For example: Enter <code>localhost</code> when the DataLinq server is running on the same computer as XPression.
>	Menu arrows are used in procedures to identify a sequence of menu items that you must follow. For example, if a step reads “ Display > Widgets ,” you would click the Display menu and then click Widgets .

Getting Help

The ***XPression INcoder User Guide*** is supplied as a print-ready PDF file. Locate the guide in the C:\Archive folder to open a guide PDF in Adobe® Reader® for viewing or printing.

Contacting Technical Support

At Ross Video, we take pride in the quality of our products, but if problems occur, help is as close as the nearest telephone.

Our 24-hour Hot Line service ensures you have access to technical expertise around the clock. After-sales service and technical support is provided directly by Ross Video personnel. During business hours (eastern time), technical support personnel are available by telephone any time. After hours and on weekends, a direct emergency technical support phone line is available. If the technical support person who is on call does not answer this line immediately, a voice message can be left and the call will be returned shortly. This team of highly trained staff is available to react to any problem and to do whatever is necessary to ensure customer satisfaction.

- **Technical Support:**
 - › 1-844-652-0645 (North America)
 - › +800 1005 0100 (International)
- **After Hours Emergency:** (+1) 613-349-0006
- **E-mail:** techsupport@rossvideo.com
- **Website:** <http://www.rossvideo.com>

User Interface Overview

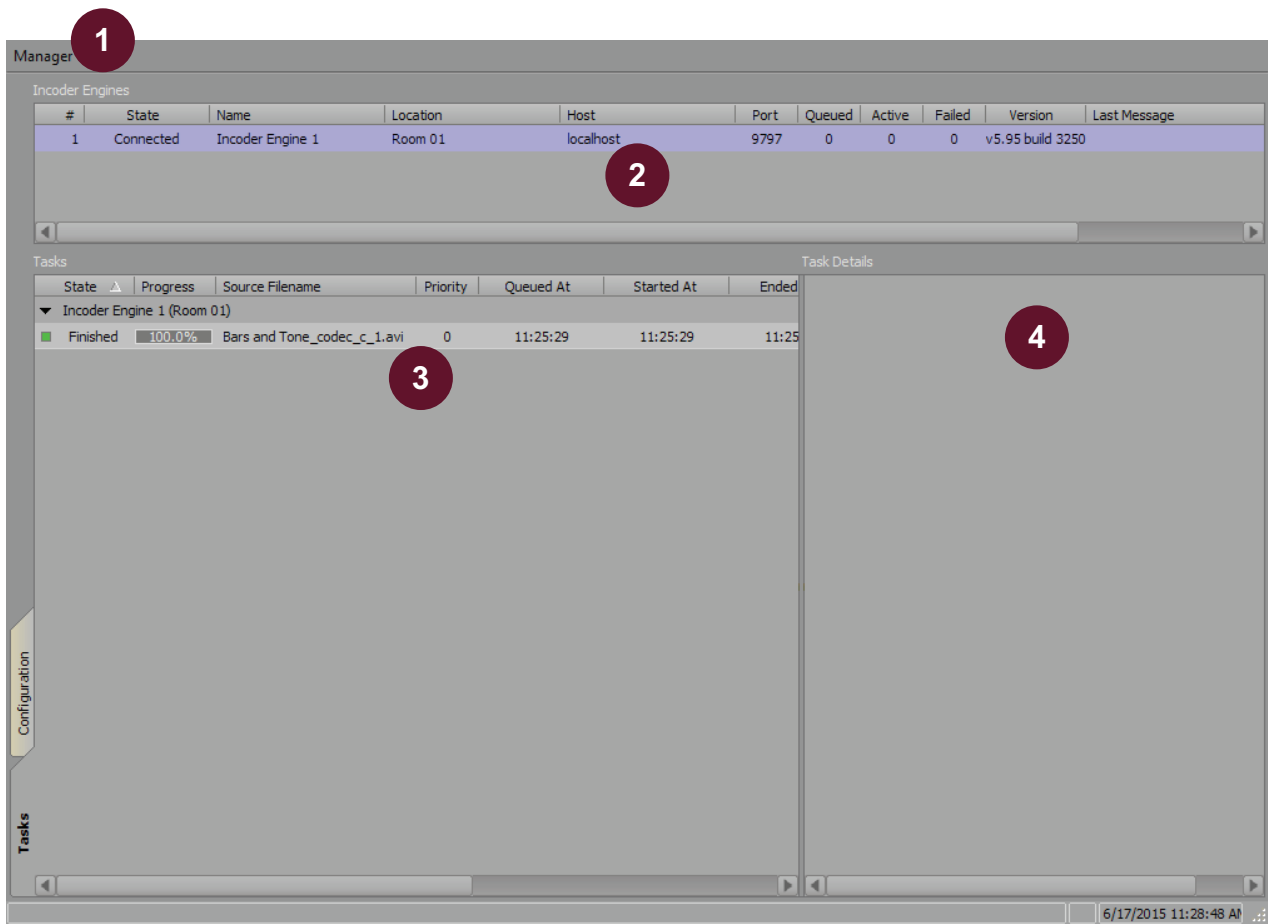
This section provides a user interface overview for the XPression INcoder Manager interface.

The following user interfaces are discussed in this section:

- The XPression INcoder - Tasks Tab
- The XPression INcoder - Configuration Tab

The XPression INcoder - Tasks Tab

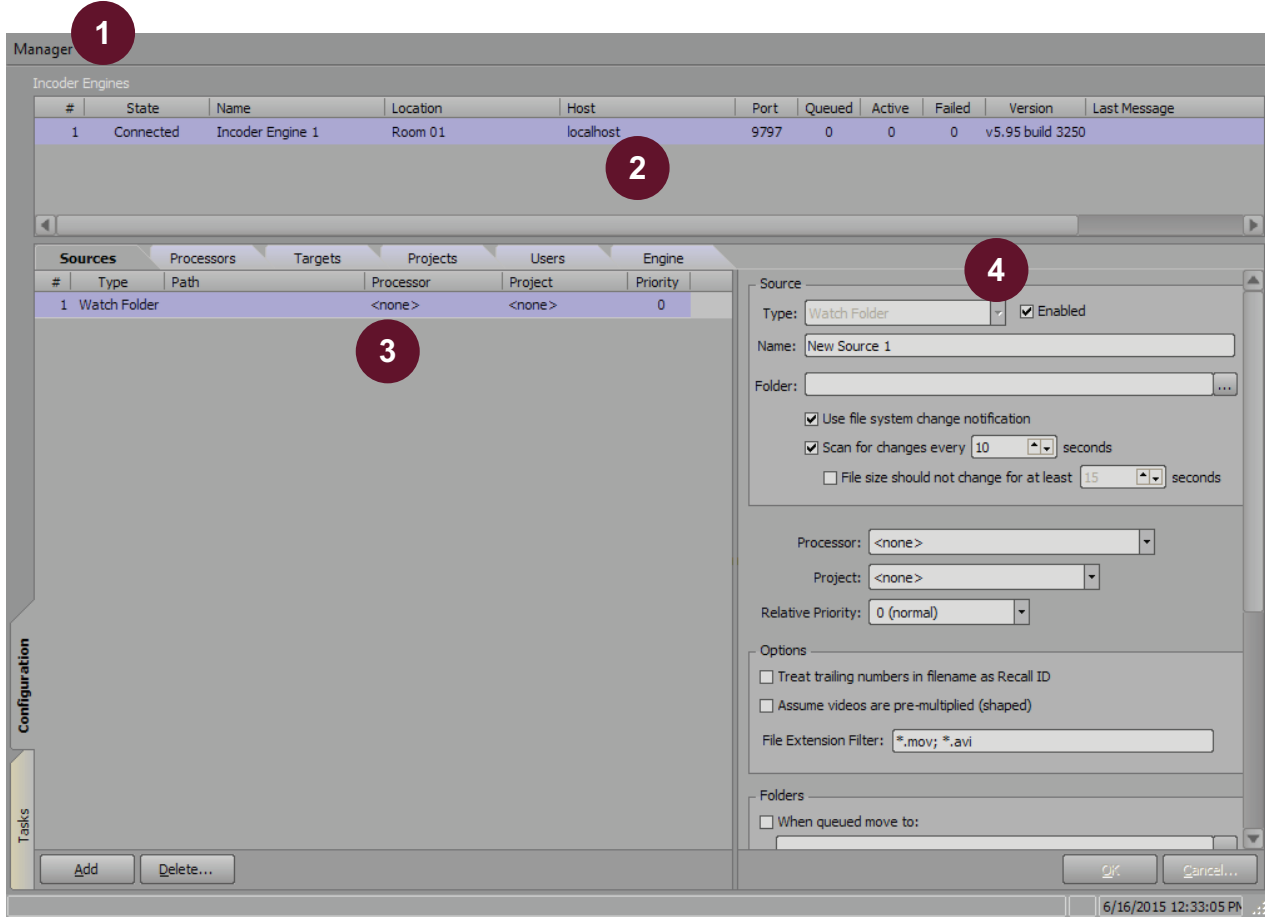
The following screen capture displays the main elements of the **Tasks** tab in the XPression INcoder Manager.



- | | |
|---|---|
| 1) Menu Bar — use the Manager menu to exit the XPression INcoder. | 3) Tasks — lists the clips that are transcoded and transcoding for specific INcoder engines, as well as the details about the transcoding. |
| 2) INcoder Engines — displays the configured engines for the XPression INcoder along with their state and details. | 4) Task Details — feature currently not implemented. |

The XPression INcoder - Configuration Tab

The following screen capture displays the main elements of the Configuration tab in the XPression INcoder Manager.



- 1) **Menu Bar** — use the Manager menu to exit the XPression INcoder.
- 2) **Incoder Engines** — displays the configured engines for the XPression INcoder along with their state and details.
- 3) **Configuration Tabs** — use the configuration tabs to configure the INcoder engines, users, projects, targets, processors, and sources.
- 4) **Configuration Area** — use the configuration area to configure the settings and details for the selected configuration tab.

XPression INcoder Setup

Overview

Before you can start transcoding videos using the XPression INcoder, it must first be installed and configured. Use the following procedures to get the XPression INcoder set up and running.

The following topics are discussed in this section:

- Installing XPression INcoder
- Starting and Stopping the XPression INcoder
- Configuring the XPression INcoder

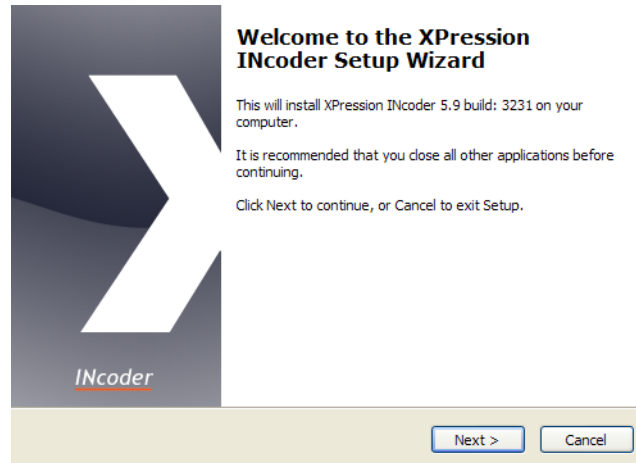
Installing XPression INcoder

Use the following procedures to complete the install of the XPression INcoder:

To install the XPression INcoder:

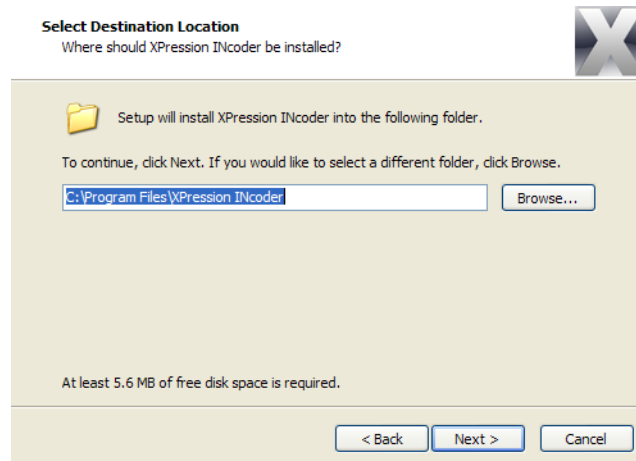
1. Locate and double-click the **xplNcoder-X.X_XXXX.exe** file.

The **Setup - XPression INcoder** window opens.



2. Click **Next**.

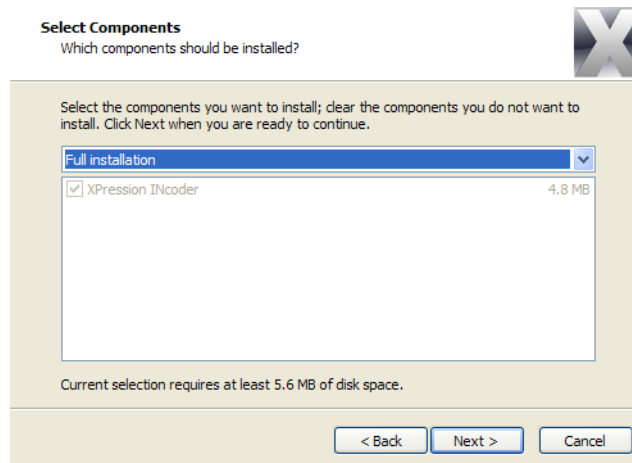
The **Select Destination Location** section opens.



3. Use the default destination folder location or click **Browse** to locate and select a different destination location.

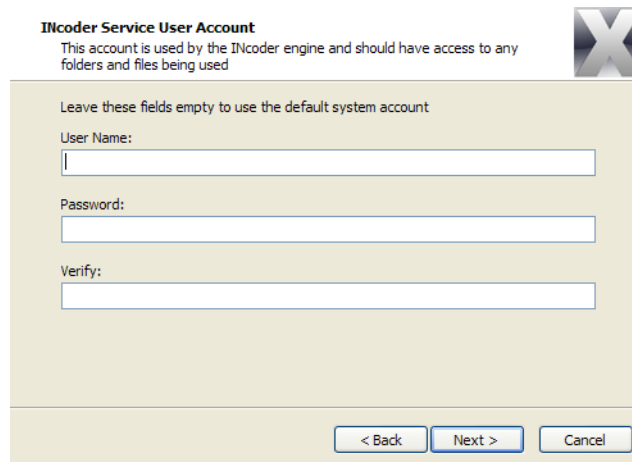
4. Click **Next**.

The **Select Components** section opens.



5. Click **Next**.

The **INcoder Service User Account** section opens.



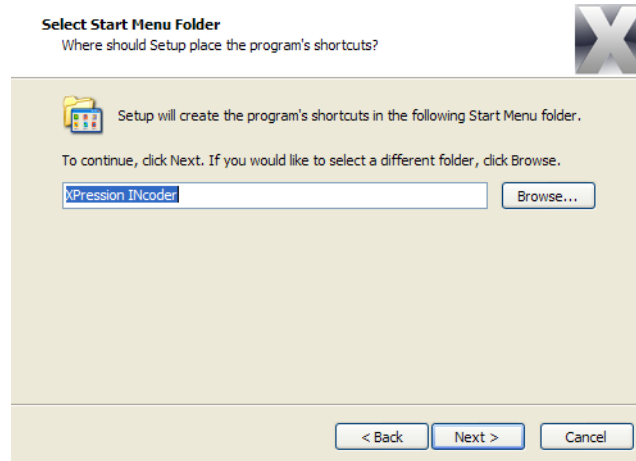
6. Leave this section empty to use the default account settings or enter a **User Name** and **Password** for the INcoder service user account.

If using a network drive as an INcoder target folder, enter a valid user name and password for the engine running the INcoder service. The user must also have unrestricted access to the network location. Please ensure that any credentials required for regular access to the network location outside of the XPression INcoder are known by the engine before attempting to send files to the remote location. For added security, include the domain in the Windows Username box, for example `DOMAIN\username` (recommended but not required).

7. Click **Next**.

- If using the default account settings for the INcoder service user account, a prompt is displayed indicating that the setup will use the default system account. Click **OK**.
- If using customized system account settings, no prompt is displayed.

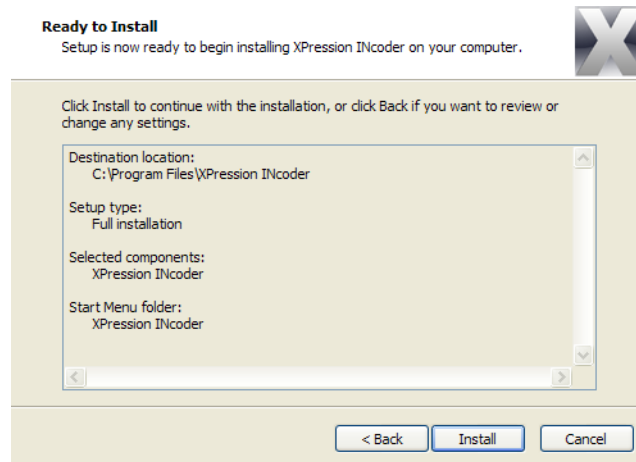
The **Select Start Menu Folder** section opens.



8. Use the default Start menu folder location or click **Browse** to locate and select a different Start menu location.

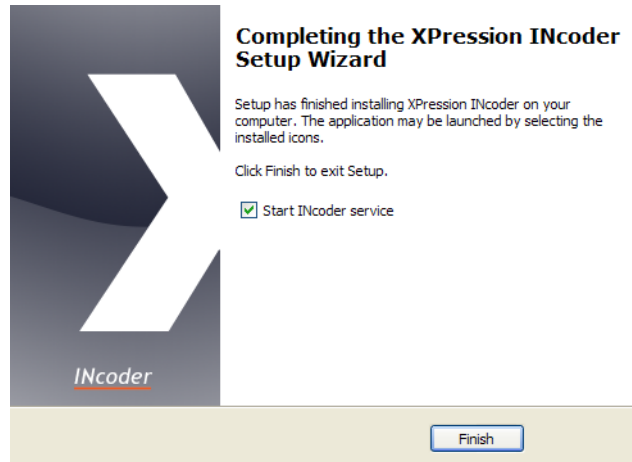
9. Click **Next**.

The **Ready to Install** section opens.



10. Click Install.

The installation begins. Once the installation is complete, the **Completing the XPression INcoder Setup Wizard** section opens.



11. Click Finish.

If the **Start INcoder Service** check box is left as selected by default and the installation was successful, an information box is displayed that indicates that the XPression INcoder was successfully started.

For More Information on...


- using a network drive as a target folder, refer to **"Configuring the XPression INcoder"** on page 3–7.

Starting and Stopping the XPression INcoder

After installing the XPression INcoder, its services are automatically started. However, if the option to start after install is de-selected, if the service has been stopped at any point, or if the service needs to be stopped, use the following procedures to start and stop the INcoder services:


- Start the INcoder
- Stop the INcoder

Start the INcoder

1. On the machine that has the XPression INcoder installed, locate the **XPression INcoder** folder using the **Start** menu.
2. Select **Start INcoder** ().

If the INcoder has successfully started, an information message indicates that the XPression INcoder was successfully started.

Stop the INcoder

1. On the machine that has the XPression INcoder installed, locate the **XPression INcoder** folder using the **Start** menu.
2. Select **Stop INcoder** ().

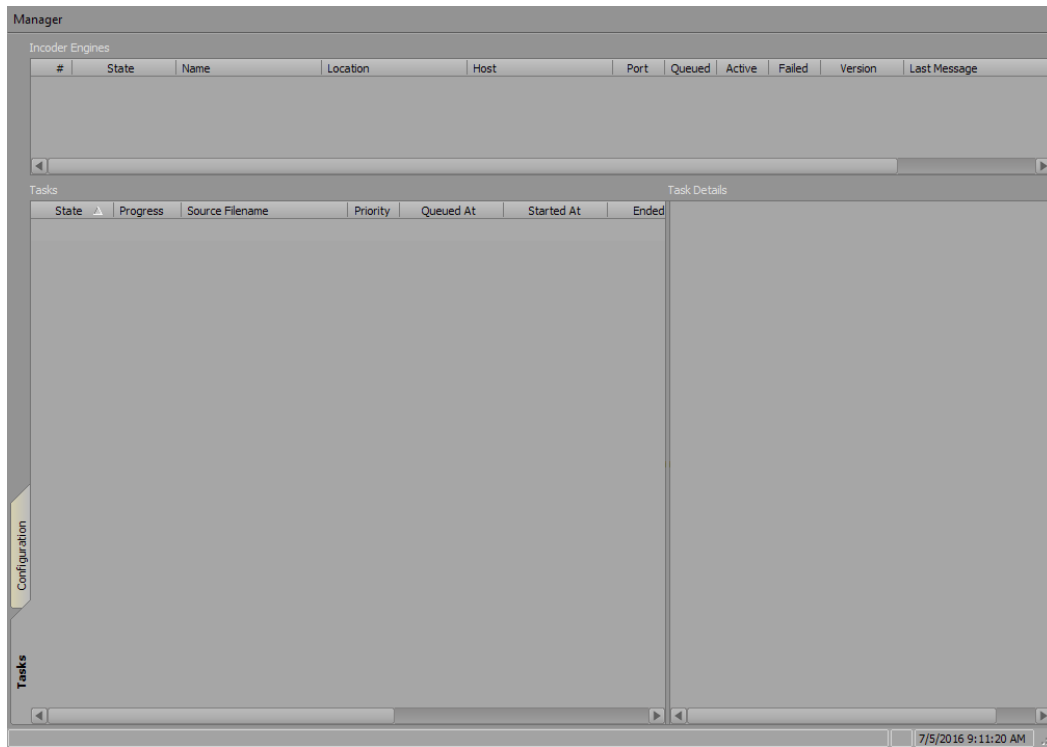
If the INcoder has been successfully stopped, an information message indicates that the XPression INcoder was successfully stopped.

Configuring the XPression INcoder

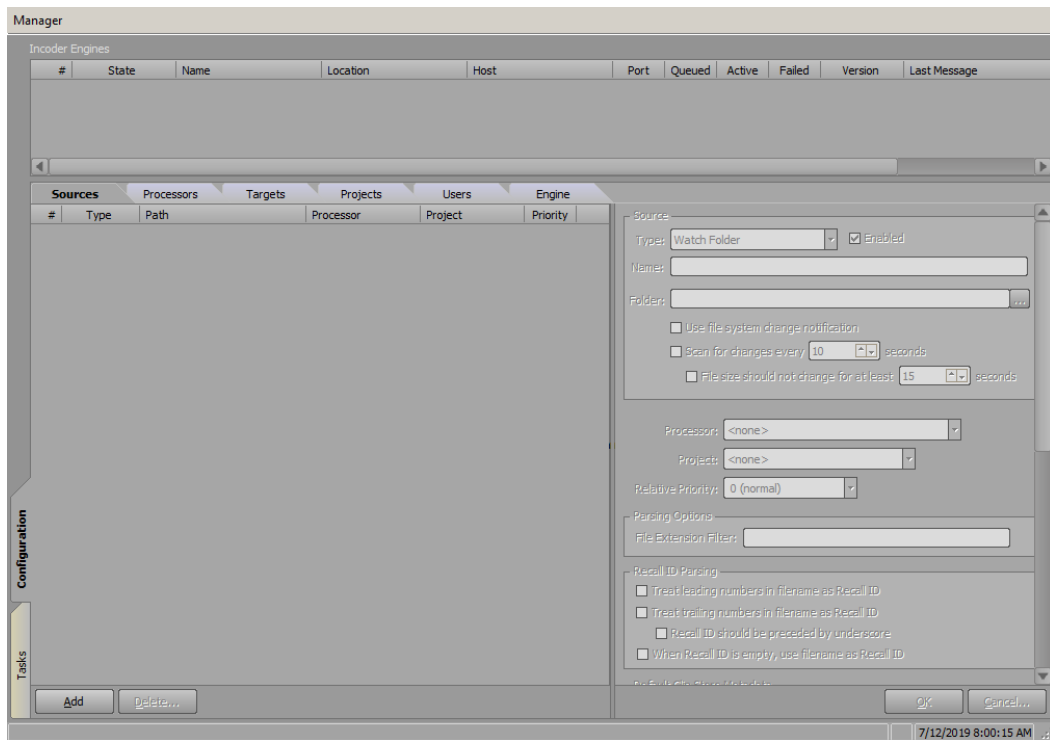
Use the XPression INcoder Manager to configure the INcoder.

1. On the machine that has the XPression INcoder installed, locate the **XPression INcoder** folder using the **Start** menu.
2. Select **INcoder Manager**.

The **XPression INcoder Manager** opens.



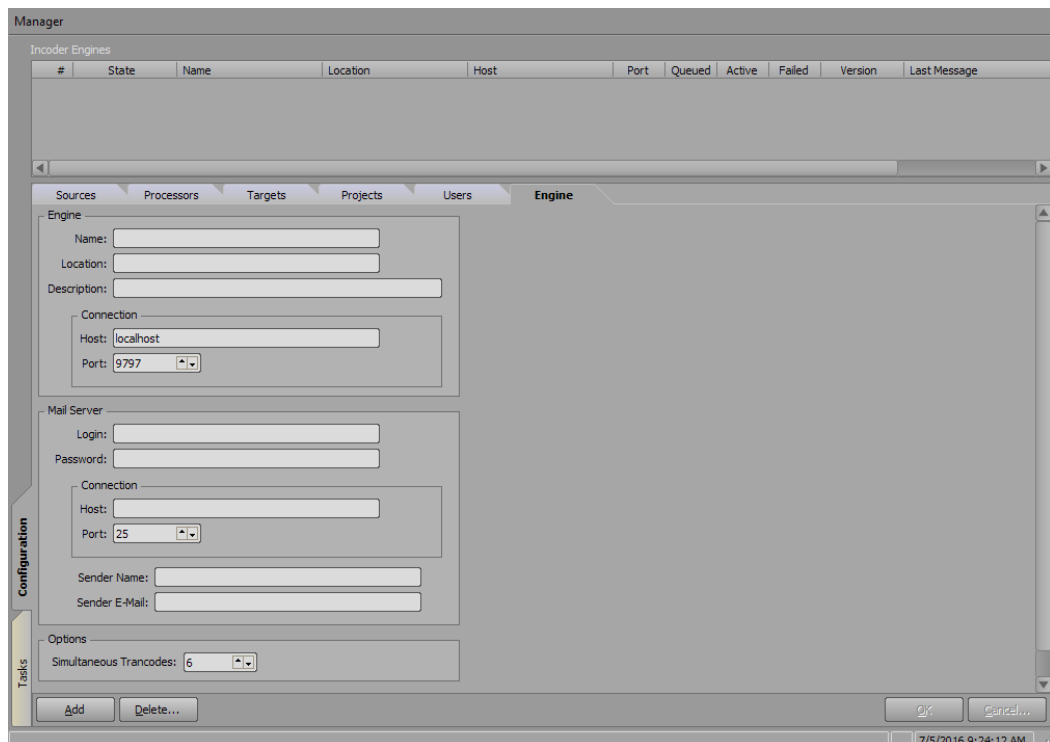
3. Click the **Configuration** tab.
- The **Configuration** tab opens.



4. Configure the configuration tabs from right to left:

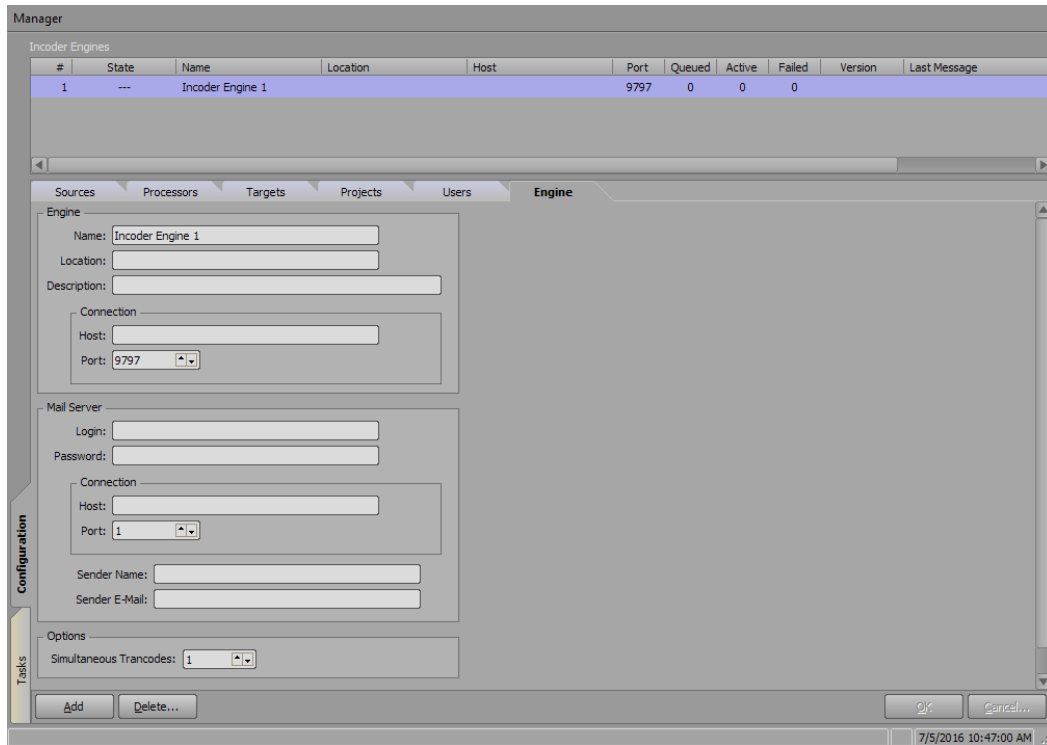
Engine

- a. Click the **Engine** tab.
- The **Engine** tab opens.



- b. Click **Add**.

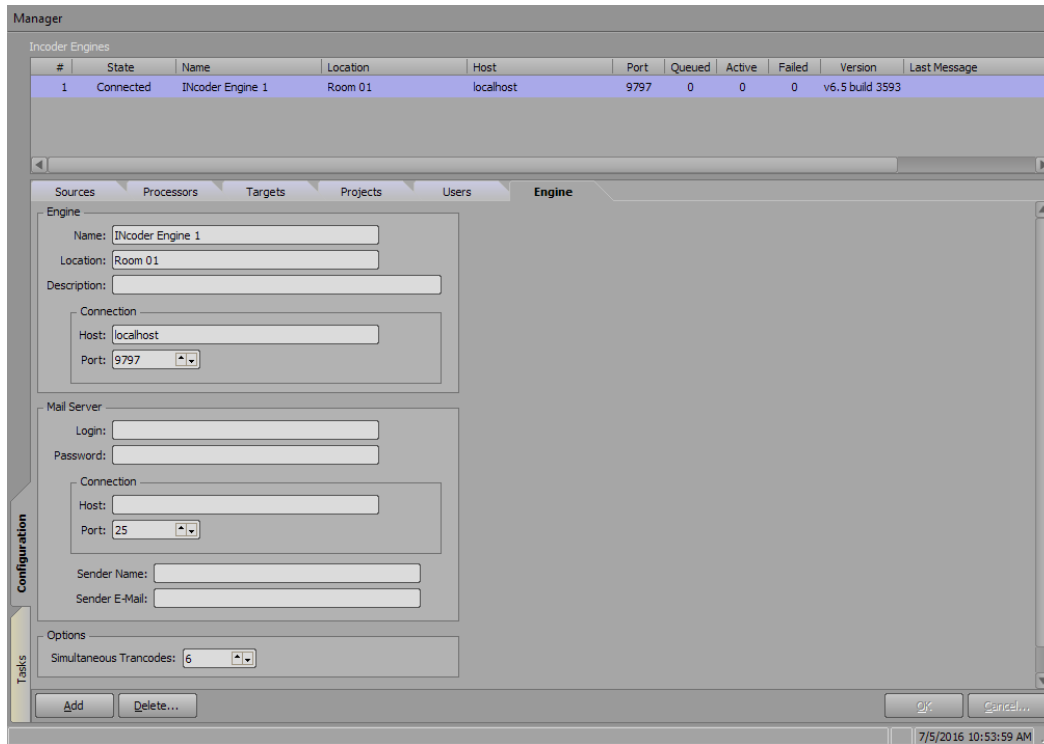
An engine is added to the **Incoder Engines** list.



- c. In the **Engine** section, use the **Name** box to enter a name for the INcoder engine. The default name is Incoder Engine 1.
- d. Use the **Location** box to enter the name of the location where the INcoder engine is located.
- e. Use the **Description** box to enter a brief descriptor for the INcoder engine.
- f. In the Engine **Connection** section, use the **Host** box to enter the IP address of the INcoder service if using remotely. If using the INcoder service locally, enter `localhost`.
- g. Use the **Port** box to enter or select the port number for the INcoder service connection. The default is 9797.
- h. In the **Mail Server** section, use the **Login** box to enter the user ID for access to the mail server.
- i. Use the **Password** box to enter the password for the login user name.
- ★ Consult your system administrator if you are uncertain of the login credentials.
- j. In the Mail Server **Connection** section, use the **Host** box to enter the IP address of the mail server.
- k. Use the **Port** box to enter or select the port number for the mail server connection. The default is 25.
- l. Use the **Sender Name** box to enter a name for the sender of notifications regarding the status of INcoder tasks.
- m. Use the **Sender E-Mail** box to enter the email address of the originator of the status information.
- n. In the **Options** section, use the **Simultaneous Transcodes** box to enter or select an amount of video files that can be transcoded by the INcoder simultaneously. Any videos beyond this amount will be queued until other video files have been transcoded.
- Any time the number of transcodes is reduced, the INcoder must be stopped and restarted before the lower number of simultaneous transcodes takes effect.
- ★ Currently, a maximum of eight simultaneous transcodes is available. However, the number of simultaneous transcodes should not be set higher than the number of CPU cores available on the machine.

- o. Click **OK** to apply the settings.

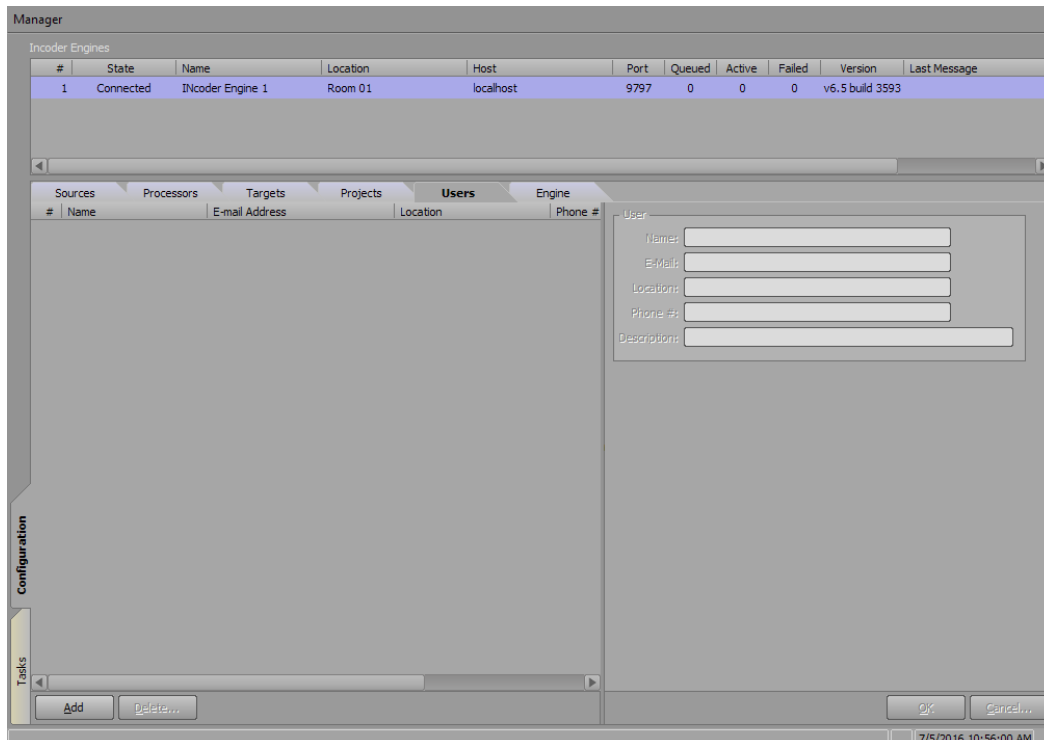
The engine settings are updated in the **Incoder Engines** list. If the connection is successful, the **State** will display as **Connected**.



Users

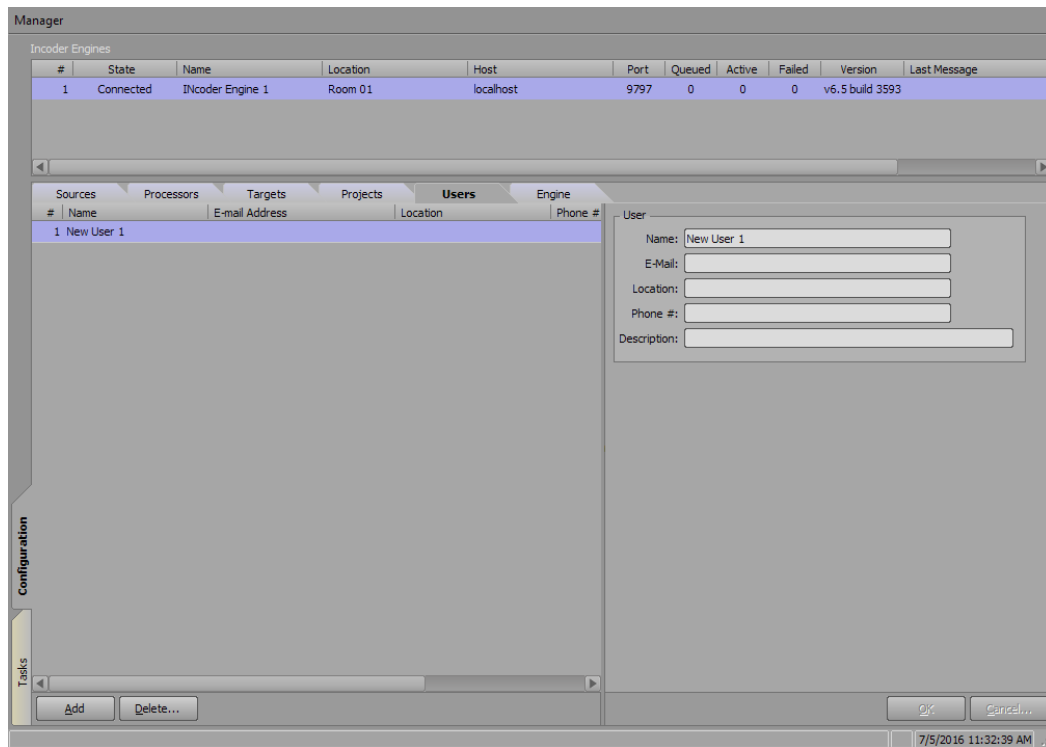
- a. Click the **Users** tab.

The **Users** tab opens.



- b. Click **Add**.

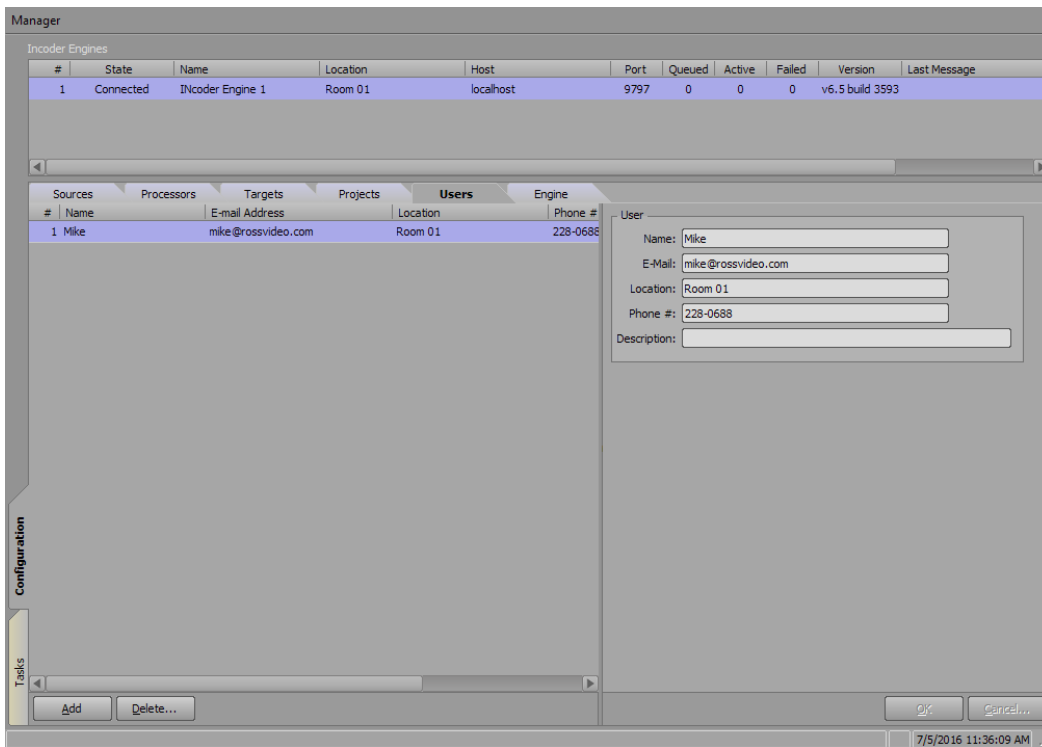
A new user is added to the users list.



- c. In the **User** section, use the **Name** box to enter a name for the user. The default is New User 1.
- d. Use the **E-Mail** box to enter the email address of the user that is to receive notifications about the INcoder statuses.
- e. Use the **Location** box to enter a location of the user, server, etc. For example, Room 01 or a rack room name.
- f. Use the **Phone #** box to enter the phone number of the user.
- g. Use the **Description** box to enter a brief descriptor for the user, such as their title or position, etc.

h. Click **OK**.

The user details are added to the user in the user list.

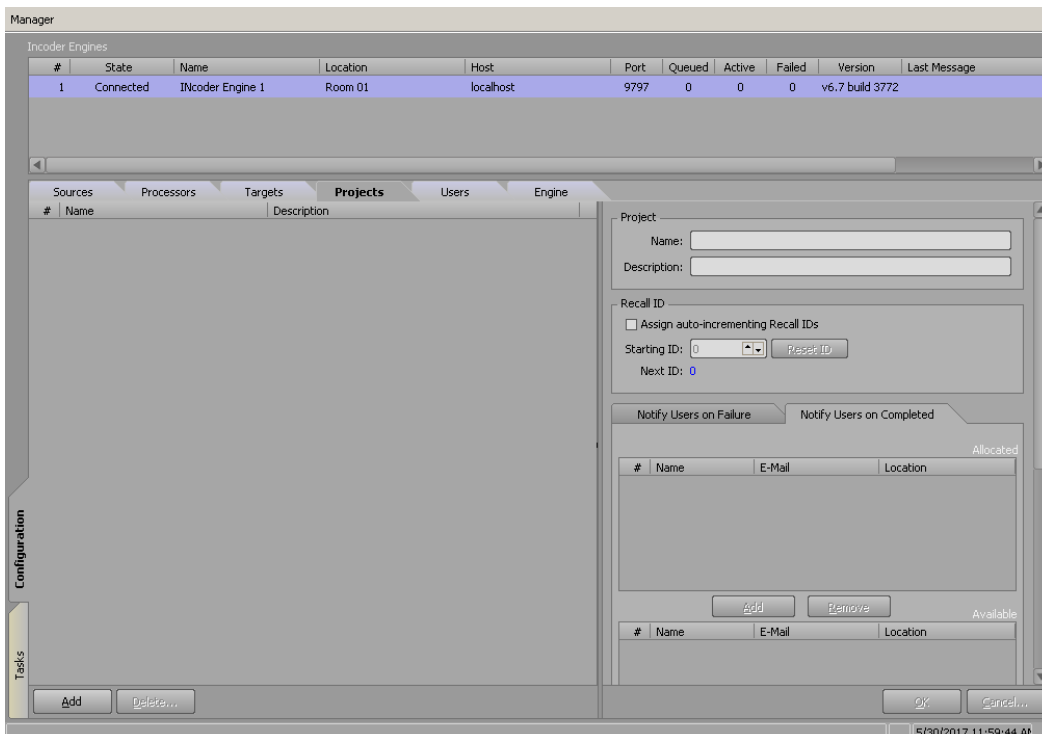


Repeat steps b to h for as many users as necessary.

Projects

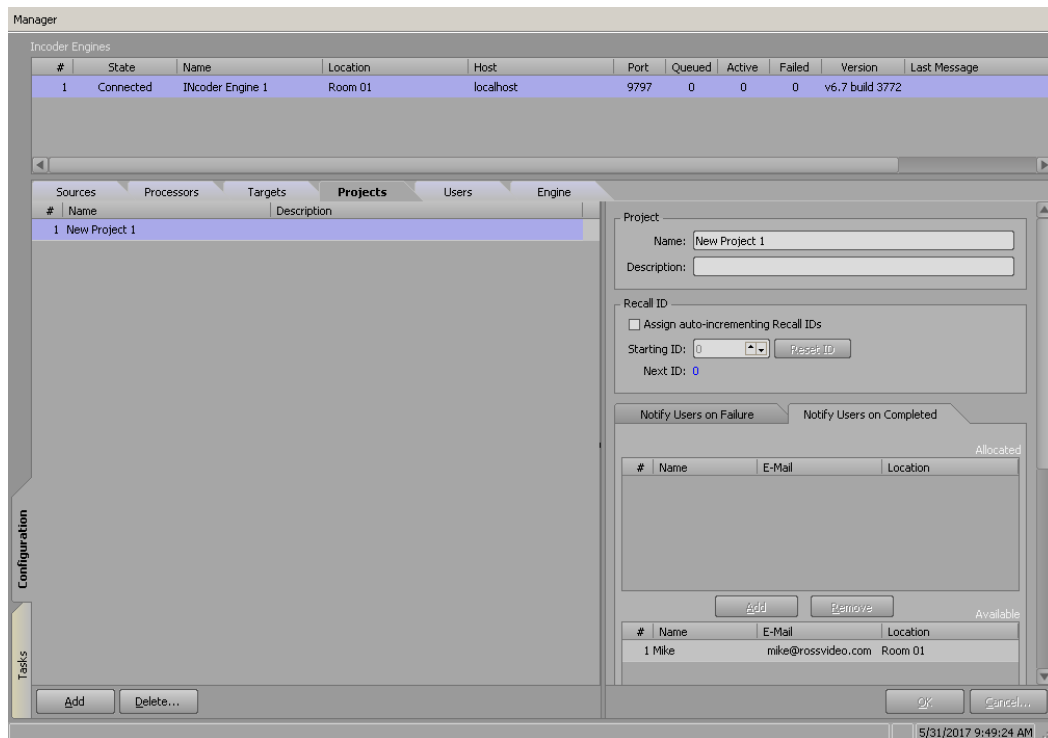
a. Click the **Projects** tab.

The **Projects** tab opens. Projects act as a filter for which users have access to certain clips.



- b. Click **Add**.

A new project is added to the project list.



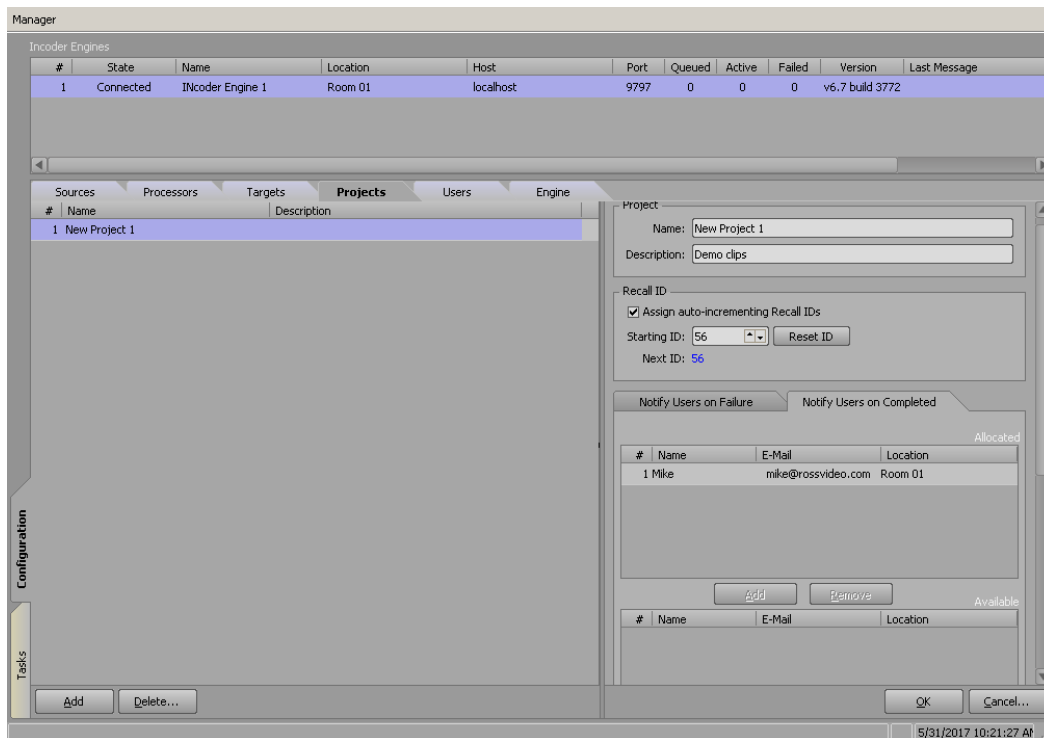
- c. In the **Project** section, use the **Name** box to enter a project name. The default name is New Project 01.

- d. Use the **Description** box to enter a brief descriptor for the project.

- e. In the **Recall ID** section, select the **Assign auto-incrementing Recall IDs** check box to automatically assign incrementing recall IDs to clips for the selected project when no recall ID has been assigned via the filename parsing settings in the watch folder.

Use the **Starting ID** box to enter or select the recall ID number at which to begin the auto-incrementing assignation of recall IDs to clips. Click the **Reset ID** button to reset the next ID to the new starting ID.

- f. In the **Notify Users on Completed** tab, select a user from the **Available** users list and click **Add**.
The user is added to the **Allocated** users list.

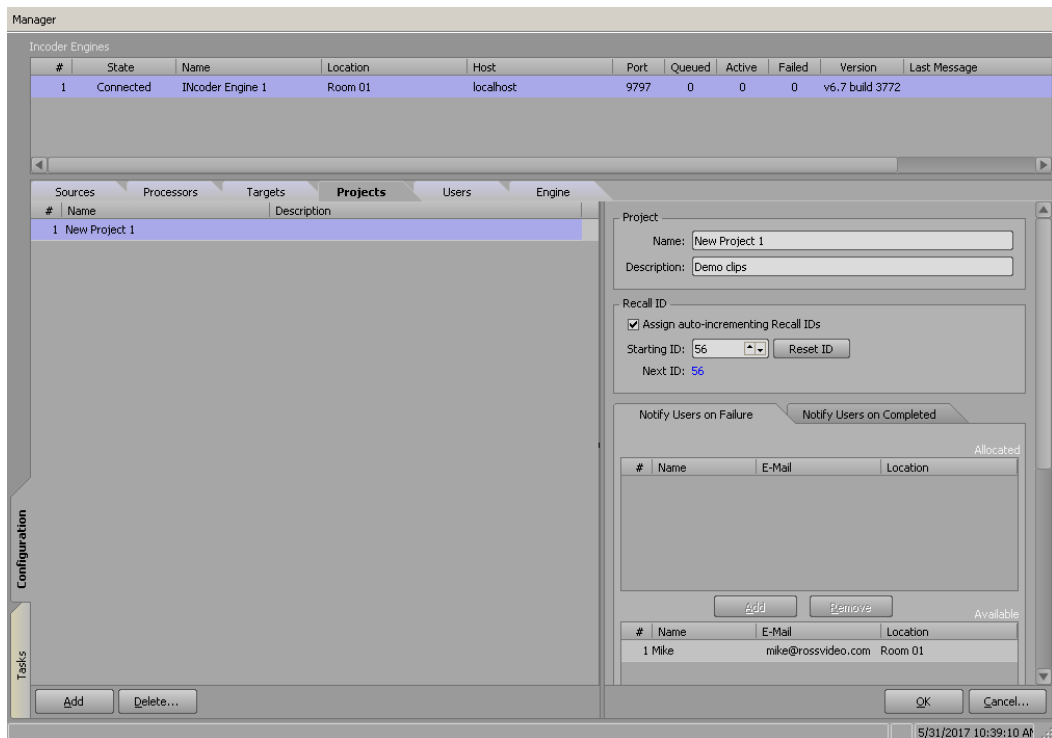


- g. Use the **Email Template** list to select the template that will be used for the outgoing status email. The options are:
- **<none>** — select this option to use no template and receive no email notifications.
 - **sample-completed.html** — select this option to use the sample-completed HTML template for the notification. This is the default option.
 - **sample-failed.html** — select this option to use the sample-failed HTML template for the notification.
- h. Configure the batch notification settings as necessary:
- **Notify in batch every** — select this check box to notify users of multiple successful transcodes in bulk within a specified time interval. Use the **minutes** box to enter or select a time interval in minutes for the notifications.
 - **Notify in batch when project queue empties** — select this check box to notify users of multiple successful transcodes once the queue of videos being transcoded in the INcoder **Tasks** list is empty. Use the **Batch limit** box to enter or select a limit on the amount of ingested files that are included in the batch for the notification.

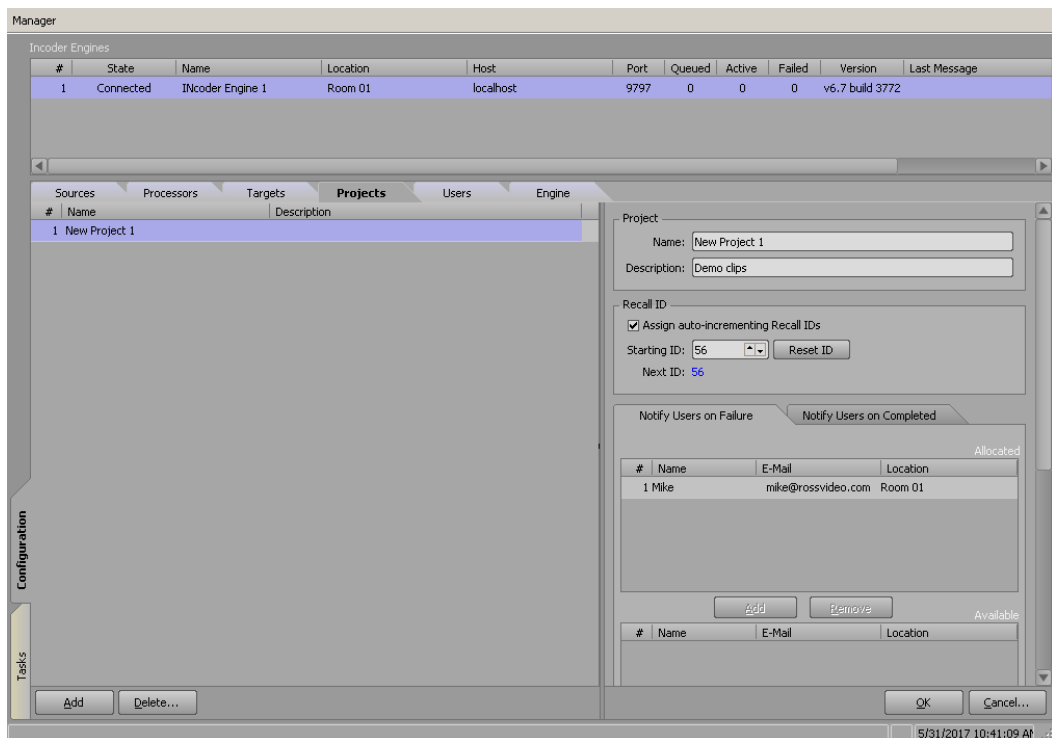
If both of the batch notification options are selected, the queue notification option will still occur even if it occurs before the batch notification time interval.

Custom templates can be added to the **EmailTemplates** folder in the **XPression INcoder** folder in the **Program Files** folder. The custom templates will then be available in the **Email Template** menu.

- i. Click the **Notify Users on Failure** tab.
The **Notify Users on Failure** tab opens.

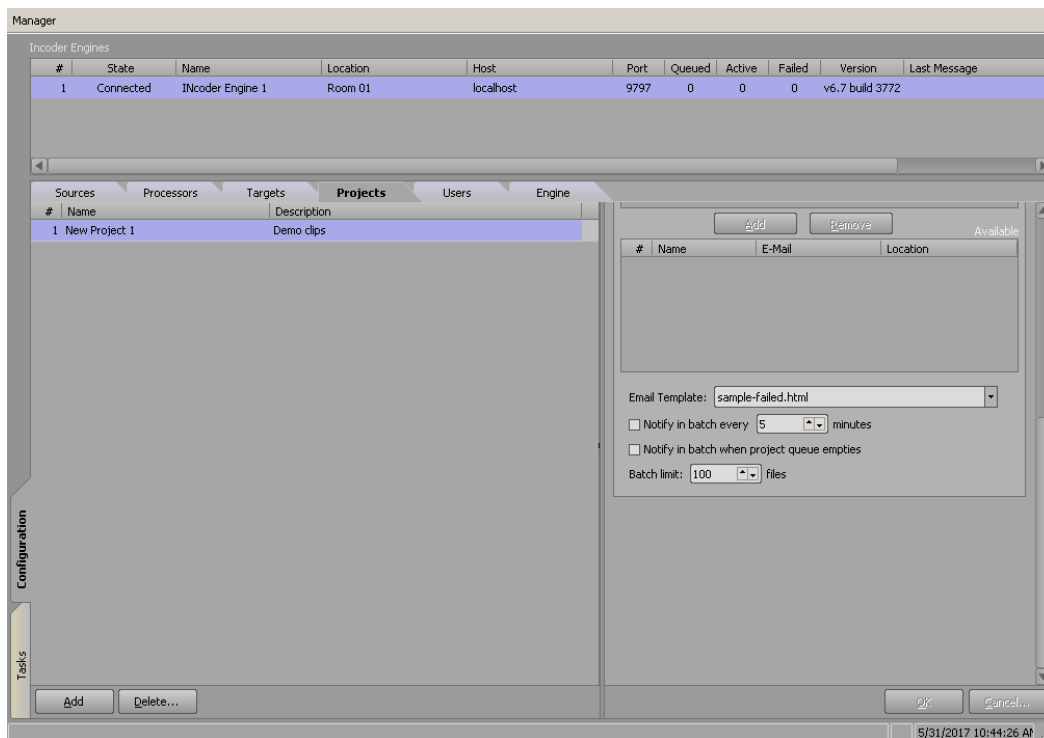


- j. Select a user from the **Available** users list and click **Add**.
The user is added to the **Allocated** users list.



- k. Use the **Email Template** list to select the template that will be used for the outgoing status email. The options are:
- **<none>** — select this option to use no template and receive no email notifications.
 - **sample-completed.html** — select this option to use the sample-completed HTML template for the notification.
 - **sample-failed.html** — select this option to use the sample-failed HTML template for the notification. This is the default option.
- l. Configure the batch notification settings as necessary:
- **Notify in batch every** — select this check box to notify users of multiple failed transcodes in bulk within a specified time interval. Use the **minutes** box to enter or select a time interval in minutes for the notifications.
 - **Notify in batch when project queue empties** — select this check box to notify users of multiple failed transcodes once the queue of videos being transcoded in the INcoder **Tasks** list is empty. Use the **Batch limit** box to enter or select a limit on the amount of ingested files that are included in the batch for the notification.
- If both of the batch notification options are selected, the queue notification option will still occur even if it occurs before the batch notification time interval.
- Custom templates can be added to the **EmailTemplates** folder in the **XPression INcoder** folder in the **Program Files** folder. The custom templates will then be available in the **Email Template** menu.
- m. Click **OK**.

The project user settings are applied and the project info in the project list is updated.

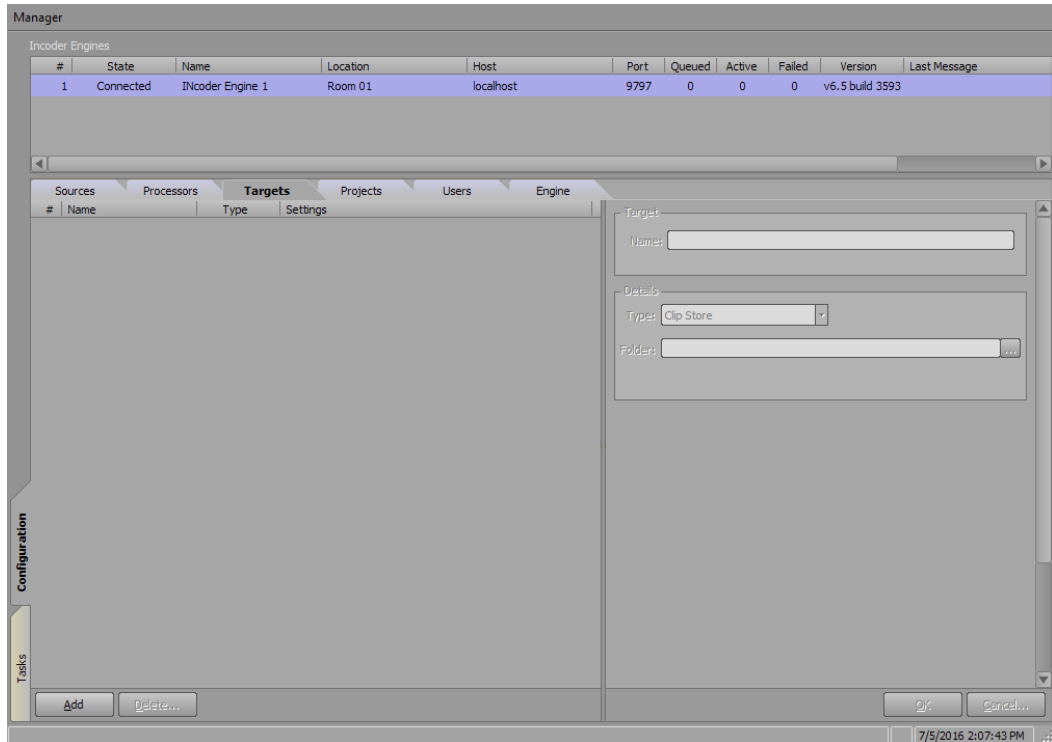


Repeat steps b to m for as many projects as necessary.

Targets

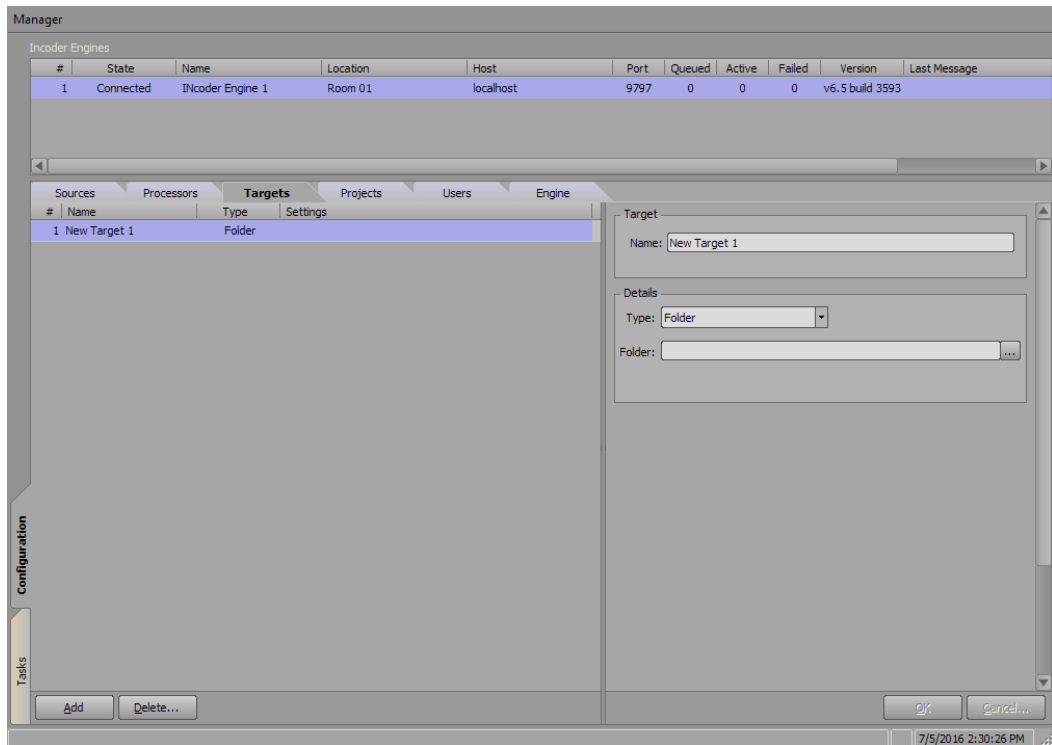
- a. Click the **Targets** tab.

The **Targets** tab opens. Use the Targets tab to configure destinations for the clips.



- b. Click **Add**.

A new target is added to the targets list.

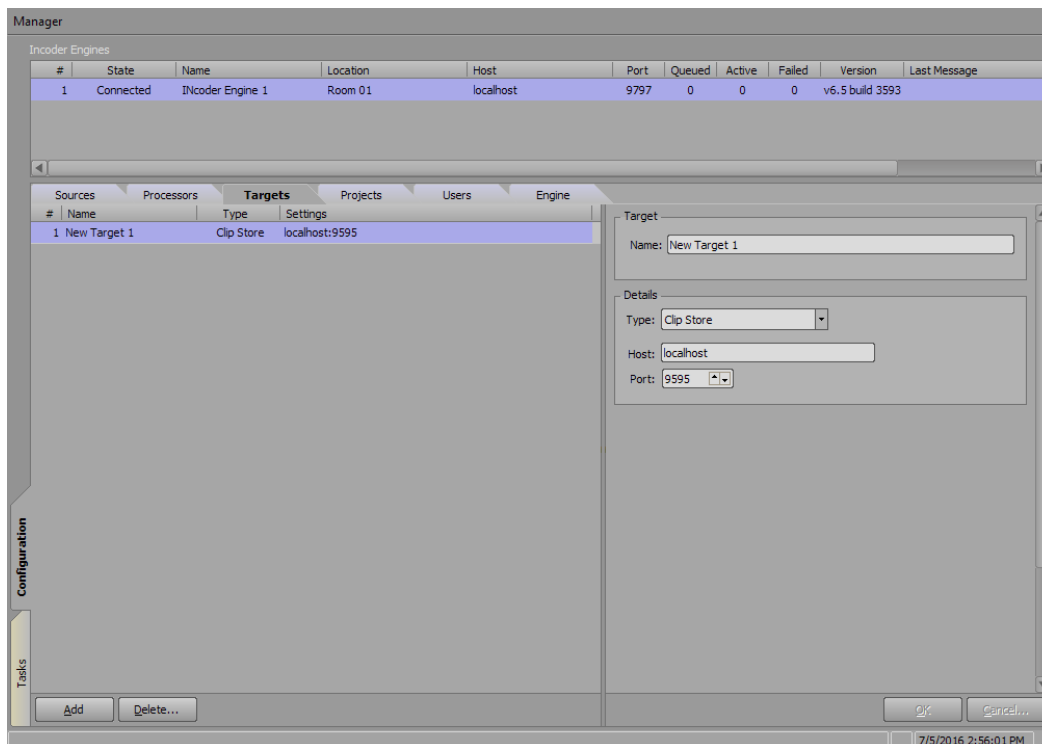


- c. In the **Target** section, use the **Name** box to enter a name for the target. The default is New Target 1.
- d. In the **Details** section, use the **Type** list to select the destination type for the target. The options are:
 - **Folder** — select this option to send encoded clips to a destination folder.
Use the **Folder** box to enter the file path to a folder or click **Browse (...)** to select a folder.
If using a network drive, enter the full network path as opposed to the mapped drive letter. For example, `\\srvtor02\Clips\Transfer` as opposed to `G:\Transfer`.
 - **Clips Store** — select this option to send encoded clips from the watch folder to the XPression Clip Store Manager.
Use the **Host** box to enter an IP address for the Clip Store Manager location or use **localhost** (default) if the Clip Store Manager is on the same machine as the INcoder.
Use the **Port** box to enter or select the port number for the Clip Store Manager location. The default is 9595.

★ To use the Clip Store option, XPression Clips must be purchased and installed separately.

- e. Click **OK**.

The settings are added to the target in the targets list.

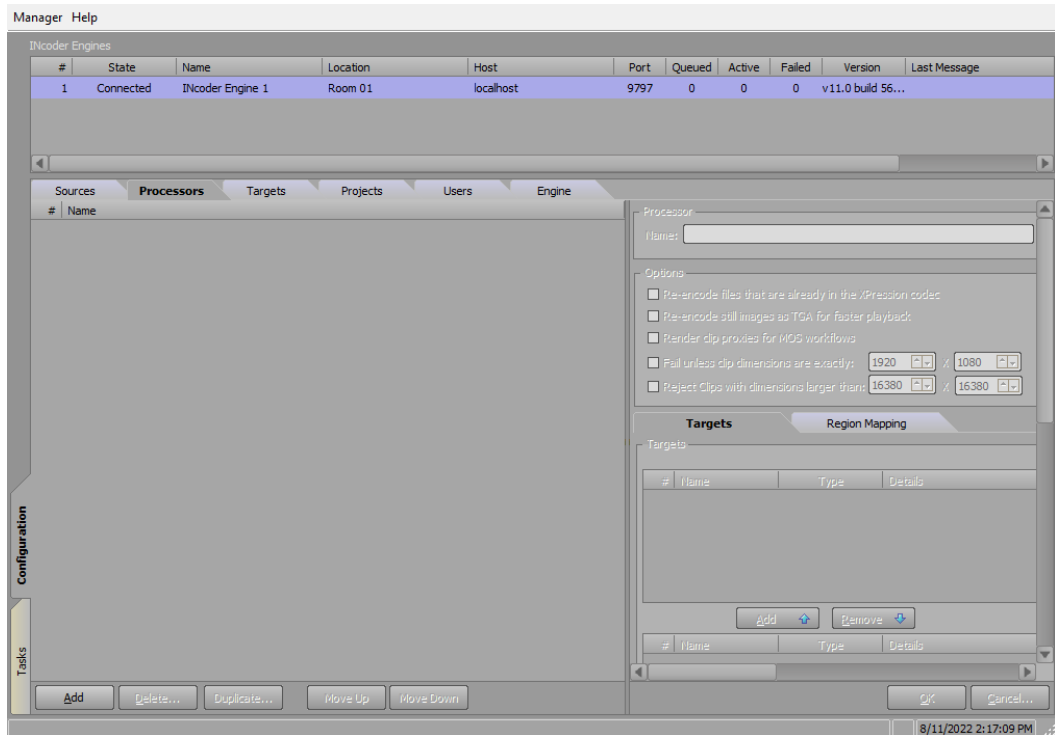


Repeat steps b to e for as many targets as necessary.

Processors

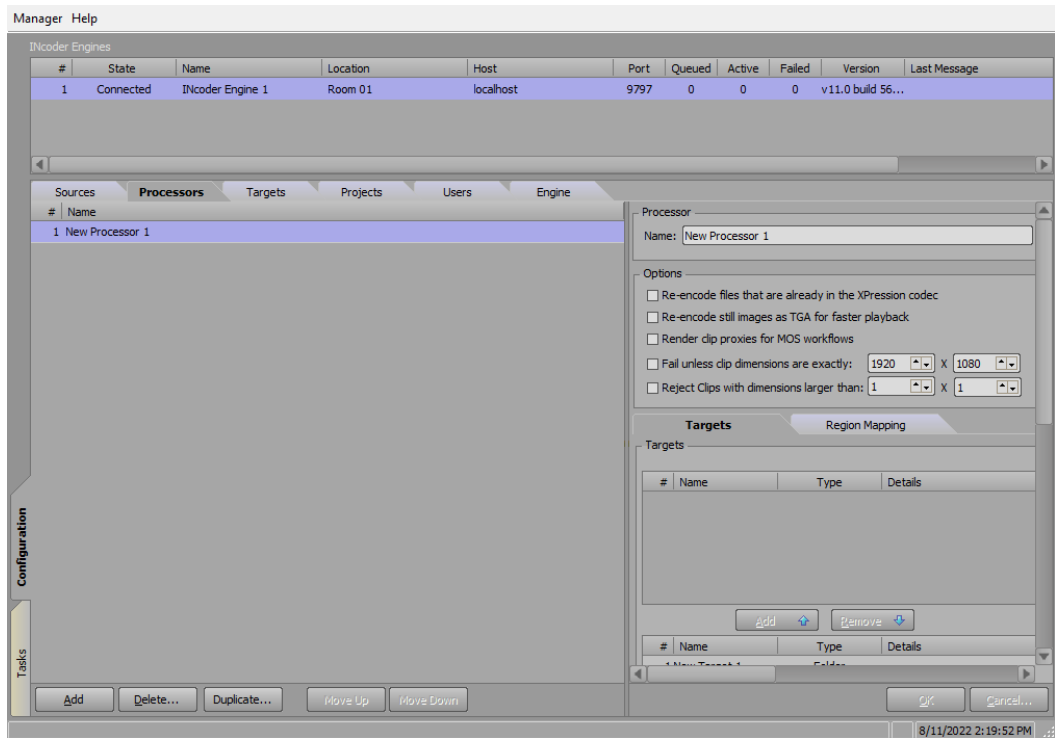
- a. Click the **Processors** tab.

The **Processors** tab opens. Use processors to delegate the targets that are used for a source.

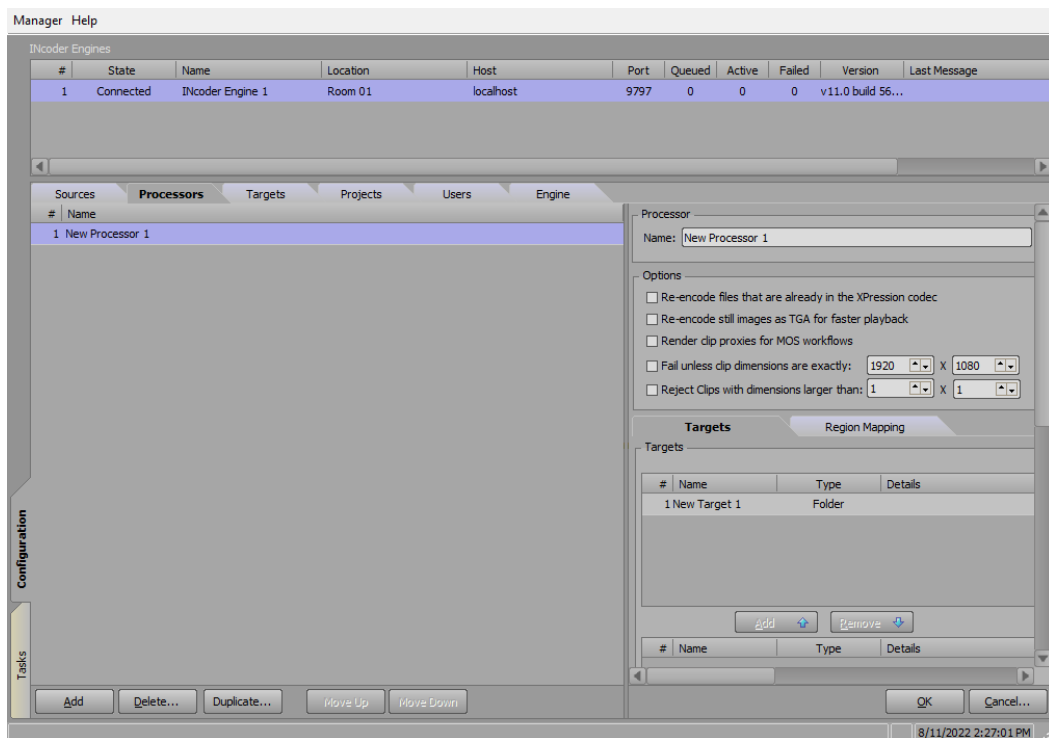


- b. Click **Add**.

A new processor is added to the processors list.

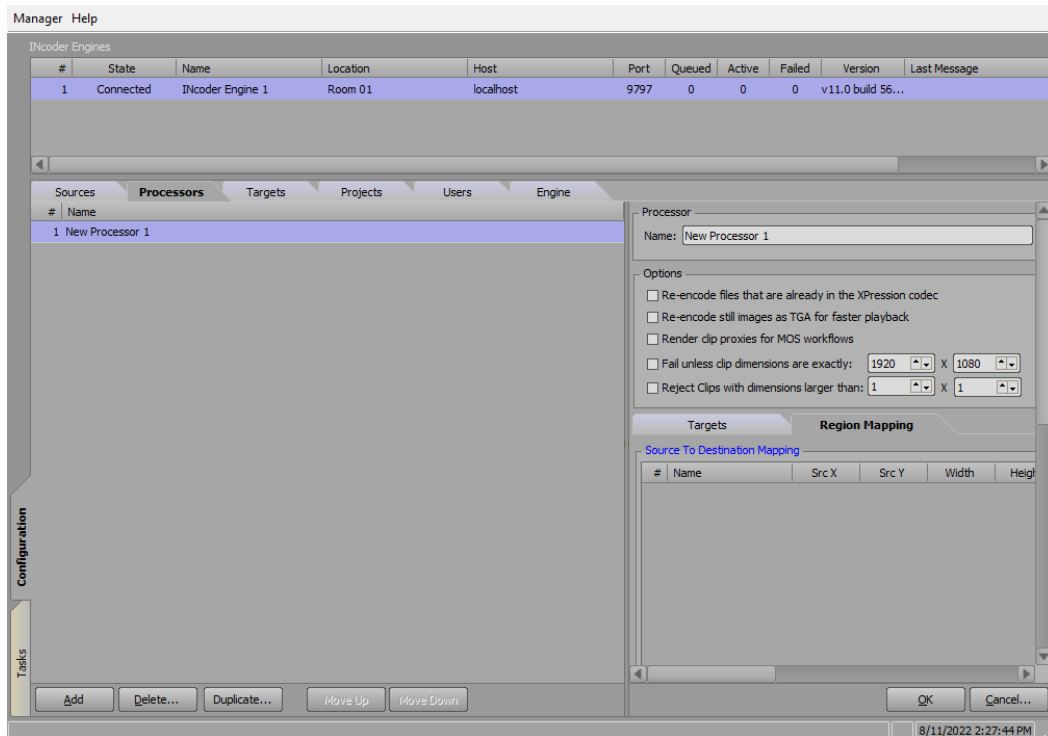


- c. In the **Processor** section, use the **Name** box to enter a name for the processor. The default is New Processor 1.
- d. In the **Options** section, configure the following options as necessary:
 - **Re-encode files that are already in the XPression codec** — select this check box to force XPression encoded files to be re-encoded.
 - **Re-encode still images as TGA for faster playback** — select this check box to re-encode and convert all types of still images (.JPG, .TIFF, .PNG, etc.) as .TGA files for faster loading. Selecting this option uses more disk space.
 - **Force quality setting for XPression codec** — select this check box to enforce the encoding quality setting of the processor. Use the text box to enter or select the percentage of the color sampling for the encoding quality. The higher the percentage, the better the color sampling quality. The default of 80 is recommended.
 - **Fail unless clip dimensions are exactly** — select this check box to force the processor to only handle clips of a specified dimension or fail otherwise. Use the **width** and **height** boxes to enter or select the exact dimensions for the processor to enforce.
 - **Reject Clips with dimensions larger than** — select this check box to enable the INcoder to reject clips larger than a specified dimension. Use the **width** and **height** boxes to enter or select the specific clip dimensions for the INcoder to reject.
- e. In the **Targets** tab, select a target from the **Available targets** list and click **Add**.
The target is added to **Allocated** targets list. Repeat this step for as many targets as necessary.



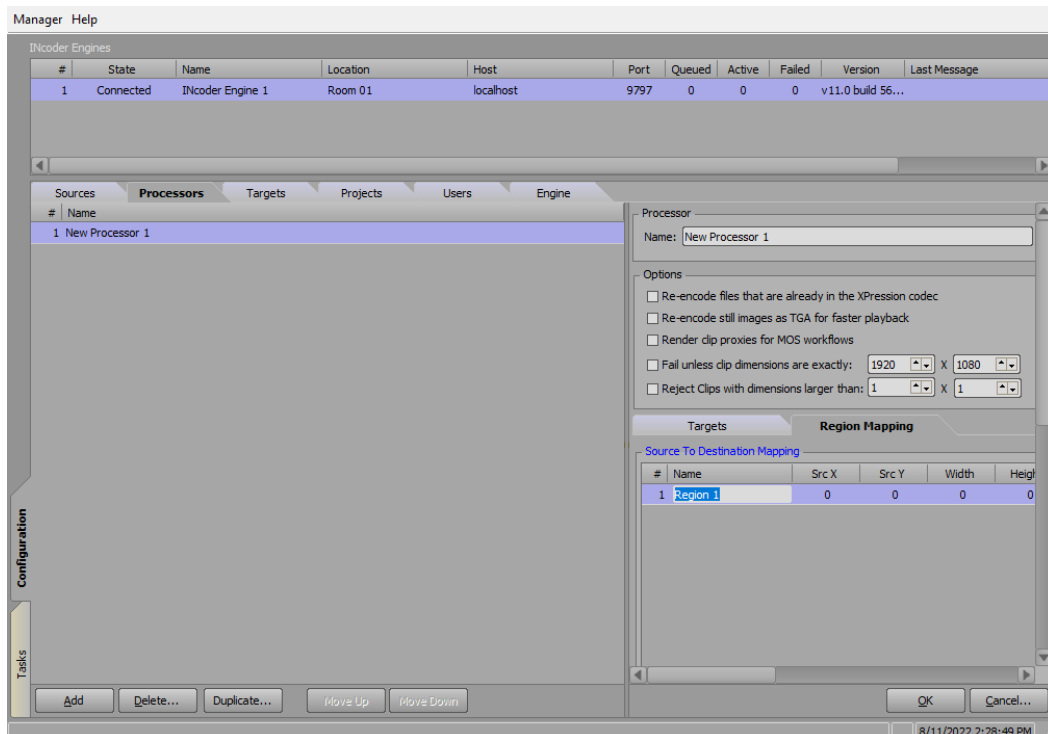
- f. If using XPression Tessera, click the **Region Mapping** tab to configure settings to split clips that are larger than HD and UHD resolutions and need to be divided into multiple segments in order to be spread across multiple render engines.

The **Region Mapping** tab opens.



- g. Scroll to the bottom of the Region Mapping tab and click **Add Region** or right-click in the **Source To Destination Mapping** list and select **Add Region** from the shortcut menu.

A new region is added to the **Source To Destination Mapping** list.

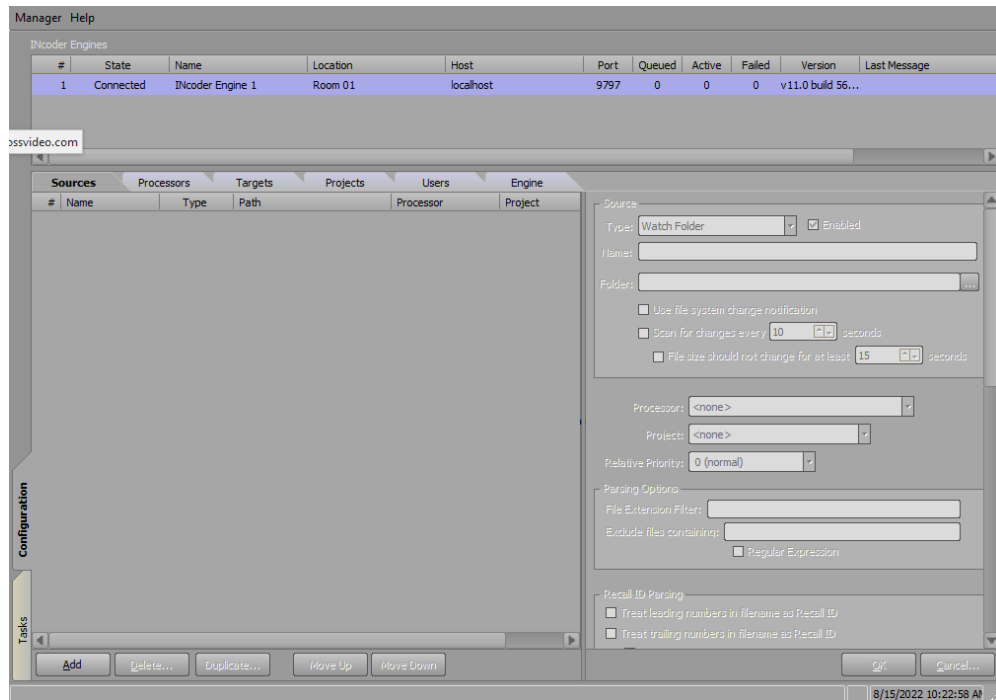


- h. In the **Source To Destination Mapping** list, configure the mapping by performing the following:
- Click inside the **Name** column and enter a name for the new region.
 - Click inside the **Src X** column and enter or select the starting point within the clip dimensional coordinates along the X-axis for the source.
Src X is measured from the upper left corner of the clip that is added.
 - Click inside the **Src Y** column and enter or select the starting point within the clip dimensional coordinates along the Y-axis for the source.
Src Y is measured from the upper left corner of the clip that is added.
 - Click inside the **Width** column and enter or select the width of the region at which the clip segment will be rendered.
 - Click inside the **Height** column and enter or select the height of the region at which the clip segment will be rendered.
- ★ The section/segments do not have to be symmetrical. Each segment can have its own unique dimension.
- Dest X** — see step i below.
 - Dest Y** — see step i below.
 - Dest Width** — see step i below.
 - Dest Height** — see step i below.
 - Select the **Include Audio** check box to include the clip audio with the region mapping configuration. In most cases, this would only need enabling on one segment.
 - Click inside the **Output Name** column and enter an output name macro if necessary.
 - Click inside the **Recall ID** column and enter a recall ID macro if necessary. For example, %name%_1, %id%_1. The recall ID will match name when the **When recall ID is empty, use filename as Recall ID** check box is enabled in the **Sources** tab.
- i. Right-click inside a mapping and select **Add Sub Region** to configure a sub-clip if necessary. Sub-clips basically use a large clip and render it as one file/clip but cut up.
Configure the sub region fields as described in step h as well as:
- Dest X** — click inside this column and enter or select the region within the clip along the X-axis for the destination.
 - Dest Y** — click inside this column and enter or select the region within the clip along the Y-axis for the destination.
 - Dest Width** — click inside this column and enter or select the scale of the width of the region.
 - Dest Height** — click inside this column and enter or select the scale of the height of the region.
- j. Click **OK** to add the processor and its target settings.
Repeat steps b to j for as many processors as necessary or select an existing processor and click **Duplicate** to create a duplicate of the selected processor.

Sources

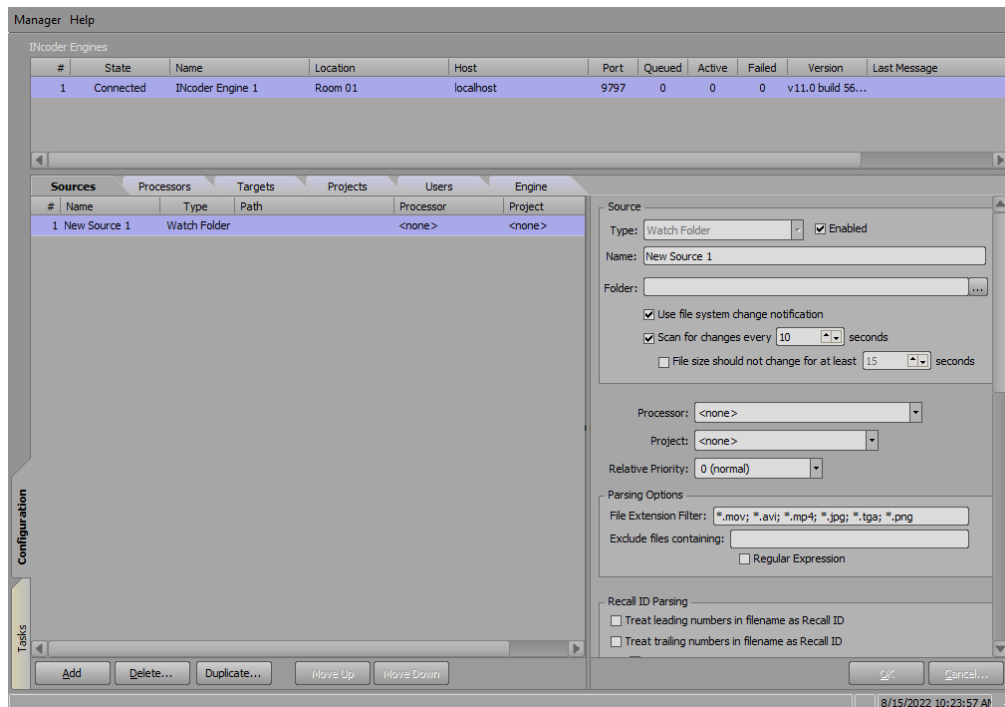
- Click the **Sources** tab.

The **Sources** tab opens. Use this tab to add watch folders and assign processors to them.



- Click **Add**.

A new source is added to the source list.



- In the **Source** section, use the **Type** list to select a source type. The only currently available option is **Watch Folder**. Watch folders are where clips are added for encoding.

Select the **Enabled** check box to use the selected source in the source list.

- d. Use the **Name** box to enter a name for the source. The default is New Source 1.
- e. Use the **Folder** box to enter a file path to a folder or click **Browse (...)** to select a folder where the INcoder will look for files to encode and send to the target.
- f. Configure the following options as necessary:
 - **Use file system change notification** — select this check box to have any file changes to the source folders reflected in the INcoder immediately.
 - **Scan for changes every** — use this box to enter or select an amount of time in **seconds** that the INcoder scans the source for any changes.
 - **File size should not change for at least** — enter or select an amount in **seconds** for the INcoder to wait before the encoding of a file begins. This is helpful with larger files where transferring might take a little longer.
- g. Use the **Processor** list to assign a processor to the selected source. The processor dictates the target of the selected source.
- h. Use the **Project** list to assign a project to receive status notifications regarding clips in the selected source.
- i. Use the **Relative Priority** list to assign a priority level to the source folder. The order of priority ranges from **-5 (low)** to **0 (normal)** to **+5 (high)**. The default is 0. This is helpful if you have multiple sources, some of which are of a higher priority than others. Files from the higher priority sources will transcode before files from lower priority sources.
- j. In the **Parsing Options** section, use the **File Extension Filter** box to enter file extensions accepted for transcoding by the INcoder. All file extensions need to be listed with an asterisk (*) in front of the file extension and a semi-colon (;) between different file types.

Any file extension currently not listed here is not supported by the INcoder. The INcoder currently supports MOV, AVI, JPG, PNG, TGA, and TIF files. Any other file type not listed is immediately blocked.
- k. Use the **Exclude files containing** box to enter keywords, IDs, etc. to exclude from transcoding by the INcoder.

Select the **Regular Expression** check box to search a sequence of characters that specifies a search pattern in text.
- l. In the **Recall ID Parsing** section, configure the following file options as necessary:
 - **Treat leading numbers in filename as Recall ID** — select this check box to use any numbers before the filename text and the file extension as recall IDs.
 - **Treat trailing numbers in filename as Recall ID** — select this check box to use any numbers between the filename text and the file extension as recall IDs.

If selected, select the **Recall ID should be preceded by underscore** check box to only use trailing numbers in a filename as recall IDs if the numbers are preceded by an underscore.
 - **When Recall ID is empty, use filename as Recall ID** — select this check box to use the filename to populate the recall ID field if no other recall ID has been explicitly set.
- m. In the **Default Clip Store Metadata** section, configure the following metadata options for the folder as necessary:
 - **Assume videos are pre-multiplied (shaped)** — select this check box to assume that the videos multiply/shape the fill signal color information by the luminance information in the key signal.
 - **Set Looping Attribute** — select this check box to enable looped playback on the videos.
 - **Set “Hold Last Frame” Attribute** — select this check box to hold the video on the last frame when playout has completed. This is also used to keep still images that are one frame in size on screen.
 - **Default Frame Rate** — use the list to select a frame rate for the video files in the folder.

★ The following tags are parsed from the filenames of files dropped into the watch folder:

- {GP} — Recall ID
- {HF} — Hold Last Frame
- {ID} — Recall ID
- {LE} — Loop Enabled
- {LFF} — Lower Field First
- {NA} — Name
- {PG} — Progressive video

- {PM} — Premultiplied/Shaped video
- {UFF} — Upper Field First

For example, a filename of {NA}Snowstorm{GP}1000{LE}{PM}.mov will be given a name of Snowstorm, a recall ID of 1000, and will be set to looped playback with shaped video.

If any of the **Assume videos are pre-multiplied (shaped)**, **Set Looping Attribute**, or **Set “Hold Last Frame” Attribute** check boxes have been selected and you want to turn off those settings for a particular file, a “FALSE” string needs to be added to the tag in the filename. For example, {LE}FALSE.

n. In the **Folders** section, configure folder destinations as necessary for the clips depending on their status. In the file path box, enter a file path to a folder or click **Browse (...)** to select a folder for the selected folder option.

- **When queued move to** — select this check box to move transcoding files to a selected folder when they are queued.
- **On failure move to** — select this check box to move files to the selected folder if the transcoding has failed.
- **On cancelled move to** — select this check box to move transcoding files that have been cancelled to the selected folder.
- **On completion** — select this check box and choose one of the following options for the files:
 - › **Move** — select this option to select a folder to move the files to upon completion of transcoding.
 - › **Delete** — select this option to delete the files after transcoding is complete.
- **Folder for temporary file processing** — select this check box to temporarily move the files to the selected folder while transcoding.

★ If no folder check boxes are selected and no destination folders assigned, default folders will be created for these options.

- o. Repeat steps b to n for as many sources as necessary or select an existing source and click **Duplicate** to create a duplicate of the selected source.

5. Click **OK**.

Repeat steps 4 to 5 for as many INcoder engines as necessary.

For More Information on...

- configuring the INcoder to use a network drive as the target folder, refer to “**Installing XPression INcoder**” on page 3–2.
- XPression Clips, refer to the XPression Clips User Guide.

XPression INcoder Tasks

Overview

Once the XPression INcoder has been installed, the services started, and the engines configured, use the Tasks tab in the XPression INcoder Manager to view the video transcoding activity of the INcoder engines.

The following topics are discussed in this section:

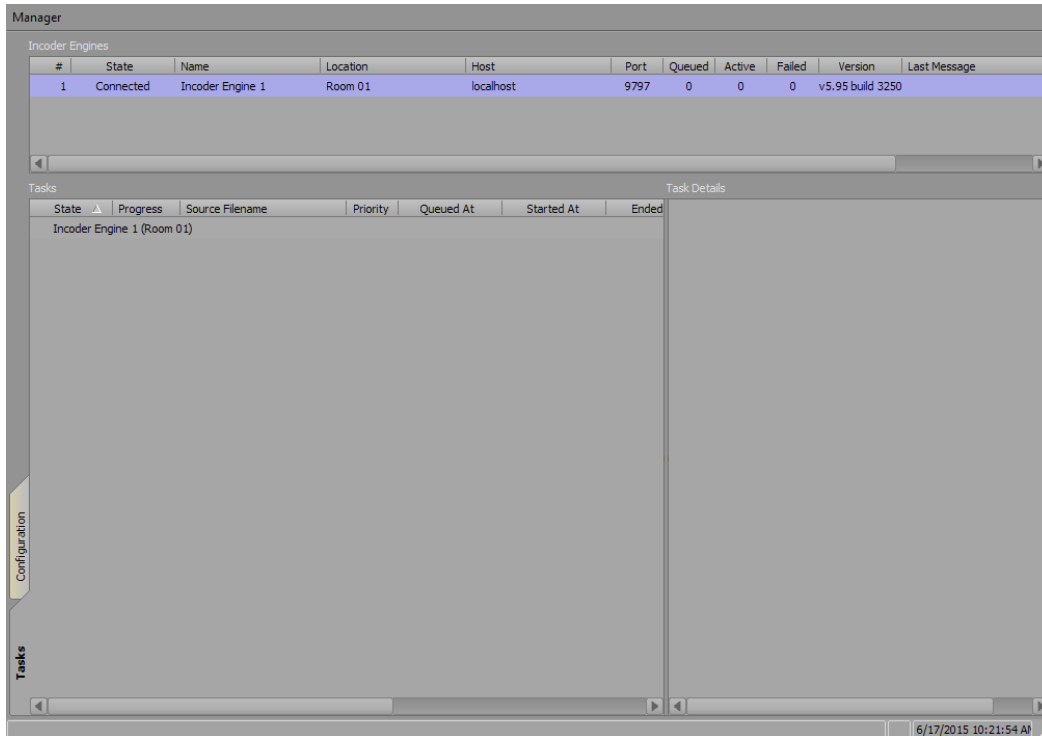
- Viewing the XPression INcoder Tasks
- Task List Shortcut Menu - INcoder Engine
- Task List Shortcut Menu - Video File

Viewing the XPression INcoder Tasks

Use the XPression INcoder Manager to view the INcoder tasks.

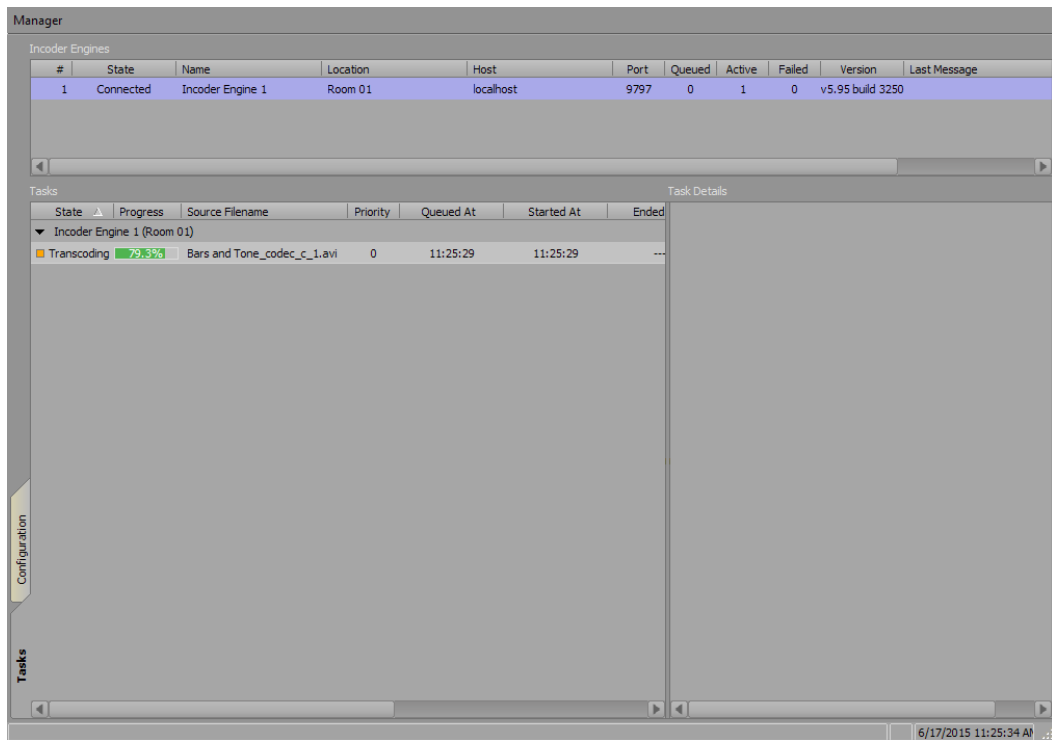
1. On the machine that has the XPression INcoder installed, locate the **XPression INcoder** folder using the **Start** menu.
2. Select **INcoder Manager**.

The **XPression INcoder Manager** opens on the **Tasks** tab.

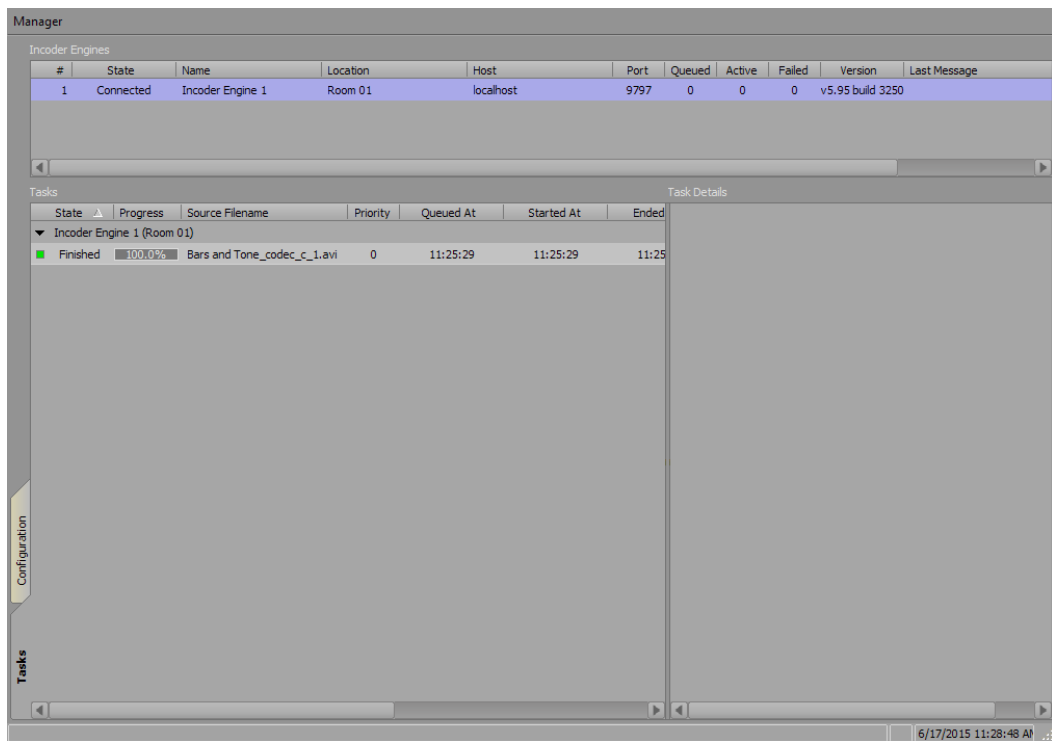


3. Add a video to the source folder.

The video appears in the **Tasks** list and the **State** is listed as **Transcoding**.



Once the video has finished transcoding, the **State** lists as **Finished** and the **Progress** displays at **100.0%**.



If the INcoder shows no tasks in the **Tasks** list once a video is added to the source folder, verify that the video type is supported. If the video type is supported, stop and then restart the INcoder. Also, if the number of transcodes is reduced, the INcoder must be stopped and restarted before the lower number of simultaneous transcodes takes effect.

- a. Select **Stop INcoder** (🛑) from the Windows **Start** menu.

If the INcoder was successfully stopped, an information message indicates that the XPression INcoder was successfully stopped.

- b. Select **Start INcoder** (🌐) from the Windows **Start** menu.

If the INcoder has successfully started, an information message indicates that the XPression INcoder was successfully started.

For More Information on...

- starting and stopping the XPression INcoder service, refer to “**Starting and Stopping the XPression INcoder**” on page 3–6.

Task List Shortcut Menu - INcoder Engine

Right-click on an INcoder engine in the **Tasks** list to access the INcoder engine shortcut menu:

- **Remove > Completed** — select this to remove completed clips from the Tasks list for the selected engine.
- **Remove > Failed** — select this to remove failed clips from the Tasks list for the selected engine.
- **Remove > Cancelled** — select this to remove cancelled clips from the Tasks list for the selected engine.

Task List Shortcut Menu - Video File

Right-click on a transcoded video in the **Tasks** list to access the video shortcut menu:

- **Set Priority** — select this to set a priority level for the selected clip. The order of priority ranges from **-5 (Lowest)** to **0 (Normal)** to **+5 (High)**. The default is 0. Clips with a higher priority will transcode before clips with a lower priority.
- **Remove** — select this to remove the selected clip from the Tasks list.
- **Cancel** — select this to cancel an in-progress transcoding of a clip.

Notes:

Notes:

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