

# XPression

## Asset Cache Server User Guide

VERSION 12.0

**ROSS**



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David Ross

CEO, Ross Video

[dross@rossvideo.com](mailto:dross@rossvideo.com)

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3. We will not ship crap.
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6. We will keep our promises.
7. We will treat the competition with respect.
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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 Asset Cache Server User Guide

- Ross Part Number: 3500DR-026-12.0
- Version: 12.0

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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.

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18. **GOVERNING LAW.** If Licensee acquired the Ross Product(s) in the United States or Canada, the laws of the state or province where Licensee's principal place of business is located govern the interpretation of this Agreement, claims for its breach, and all other claims regardless of conflict of laws principles. If Licensee acquired the Ross Product(s) in the European Union or the United Kingdom, then the laws of England and Wales apply. If Licensee acquired the Ross Product(s) in any other country, then the laws of the Province of Ontario, Canada shall apply.
19. **LANGUAGE.** The Parties have expressly required that this Agreement and all documents relating thereto be prepared in English. Les parties ont expressément exigé que cette convention ainsi que tous les documents qui s'y rattachent soient rédigés en anglais.
20. **GOVERNMENT CONTRACTS.** If the Software and/or Documentation to be furnished to Licensee hereunder are to be used in the performance of a government contract or subcontract, the Software and/or Documentation shall be provided on a "restricted rights" basis only and Licensee shall place a legend, in addition to applicable copyright notices, in the form provided under the applicable governmental regulations. For greater certainty, Ross Video shall not be subject to any flow-down provisions required by any customer of Licensee that is a Governmental Authority unless Ross Video expressly agrees to be bound by such flow-down provisions in writing.
21. **EXPORT AND IMPORT LAWS.** Licensee acknowledges and agrees that the Software (including any technical data and related technology) may be subject to the export control laws, rules, regulations, restrictions and national security controls of the United States and other applicable countries (the "**Export Controls**") and agrees not to export, re-export, import or allow the export, re-export or import of such export-controlled Software (including any technical data and related technology) or any copy, portion or direct product of the foregoing in violation of the Export Controls. Licensee hereby represents that it is not an entity or person to whom provision of the Software (including any technical data and related technology) is restricted or prohibited by the Export Controls. Licensee agrees that it has the sole responsibility to obtain any authorization to export, re-export, or import the Software (including any technical data and related technology), as may be required. Licensee will defend, indemnify and hold Ross Video harmless from any and all claims, losses, liabilities, damages, fines, penalties, costs and expenses (including attorney's fees) arising from or relating to any breach by Licensee of its obligations under this Section.
22. **AMENDMENT AND WAIVER.** No amendment, discharge, modification, restatement, supplement, termination or waiver of this Agreement or any Section of this Agreement is binding unless it is in writing and executed by the Party to be bound. No waiver of, failure to exercise or delay in exercising, any Section of this Agreement constitutes a waiver of any other Section (whether or not similar) nor does any waiver constitute a continuing waiver unless otherwise expressly provided.
23. **SEVERABILITY.** Each Section of this Agreement is distinct and severable. If any Section of this Agreement, in whole or in part, is or becomes illegal, invalid, void, voidable or unenforceable in any jurisdiction by any court of competent jurisdiction, the illegality, invalidity or unenforceability of that Section, in whole or in part, will not affect (a) the legality, validity or enforceability of the remaining Sections of this Agreement, in whole or in part; or (b) the legality, validity or enforceability of that Section, in whole or in part, in any other jurisdiction.
24. **ENTIRE AGREEMENT.** This Agreement, and any other documents referred to herein, constitutes the entire agreement between the Parties relating to the subject matter of this Agreement and supersedes all prior written or oral agreements, representations and other communications between the Parties.

*Updated: November 1, 2023*

# Warranty and Repair Policy

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

- XPression Asset Cache Server Server — 12 months
- XPression Asset Cache Server 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 Asset Cache Server 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.

# Company Address

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**After Hours Emergency:** (+1) 613 · 349 · 0006

**E-mail for Technical Support:** [techsupport@rossvideo.com](mailto:techsupport@rossvideo.com)

**E-mail for General Information:** [solutions@rossvideo.com](mailto:solutions@rossvideo.com)

**Website:** <http://www.rossvideo.com>

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# Introduction

Thank you for choosing a Ross Video XPression Asset Cache Server system.

Ross Video designed XPression Asset Cache Server with the needs of live production in mind. The XPression Asset Cache Server is an optional part of the XPression OpenMAM workflow that allows assets to be downloaded from a remote MAM system prior to the rundown being activated for playout.

We appreciate your business and sincerely hope that you have a great experience with your new XPression Asset Cache Server system. As always, if there is anything we at Ross Video can do to assist you, please do not hesitate to contact us.

## About This Guide

This guide covers the use of the XPression Asset Cache Server system.

If, at any time, you have questions pertaining to the operation of XPression Asset Cache Server, please contact us at the numbers listed in the section [Getting Help](#)<sup>34</sup>. Our technical staff is 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 sub-menus that must be followed to reach a particular command.

### **Bold text**

Bold text identifies a user interface element such as a dialog box, menu item, or button.

For example:

In the **Slug** column, type a slug name for the story.

### *Italic text*

Italic text is used to identify the titles of referenced guides, manuals, or documents.

For example:

For more information, refer to the *DashBoard User Guide*.

### Courier text

Courier text identifies text that a user must type.

For example:

In the **Username** box, type `postgres`.

### Menu Sequences

Menu arrows are used in procedures to identify a sequence of menu items that you must follow.

For example:

If a step reads **Server > Save As**, you would select the **Server** menu and then select **Save As**.

### [Hypertext](#)

Identifies a hyperlink to a related topic.

## Getting Help

XPression Asset Cache Server documentation is available online at [Product Documentation](#) and is also accessible on the product USB key and by selecting the **Help** icon in the user interface.

## 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. 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.

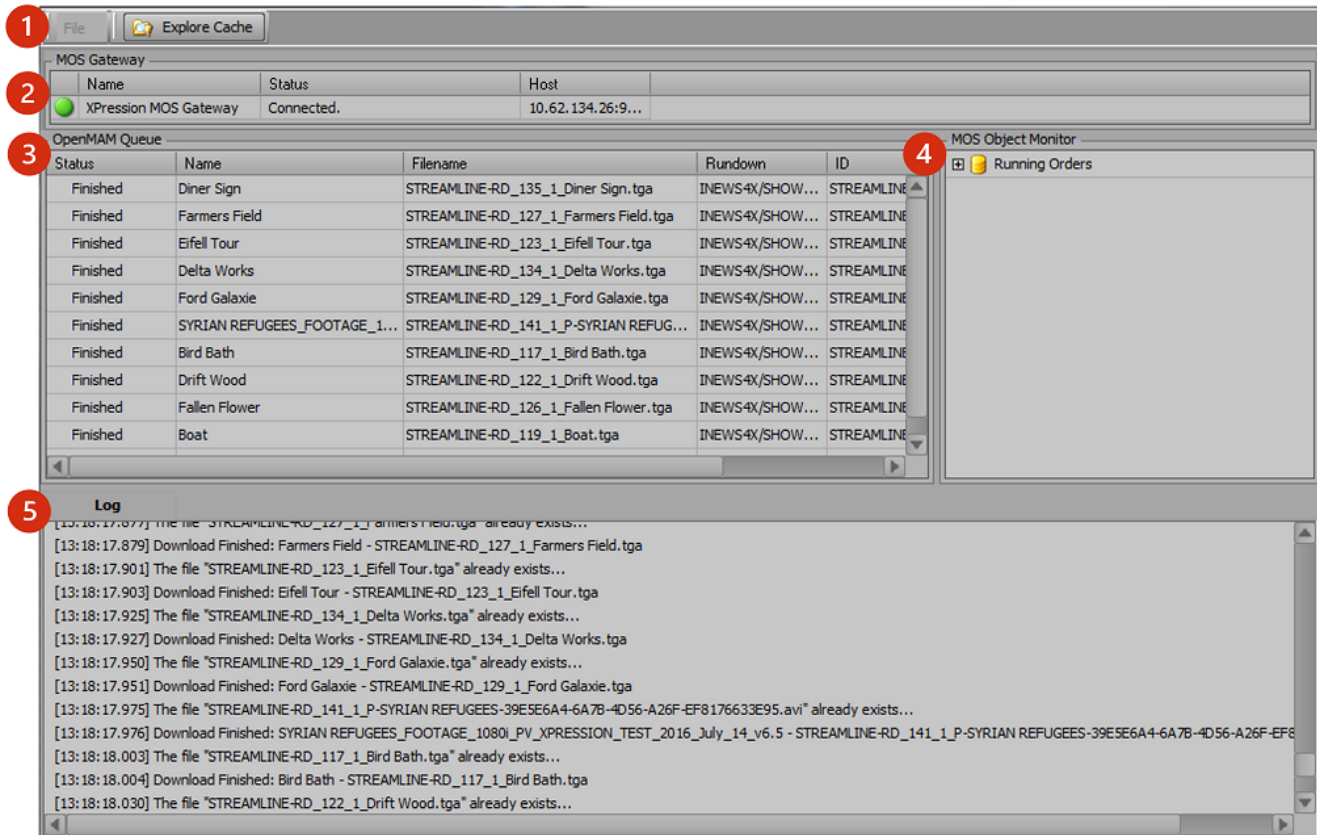
### Technical Support:

- 1-844-652-0645 (North America)
- +800 3540 3545 (International)
- After Hours Emergency: (+1) 613-349-0006
- E-mail: [techsupport@rossvideo.com](mailto:techsupport@rossvideo.com)
- Website: <http://www.rossvideo.com>

# The XPression Asset Cache Server

Use the XPression Asset Cache Server interface to manage connections to the MOS Gateway and openMAM servers, monitor assets being downloaded to the cache, and view the current activity log.

The following screen capture displays the main elements of the XPression Asset Cache Server user interface. Descriptions of individual elements are contained in the legend below the diagram.



*XPression Asset Cache Server Interface*

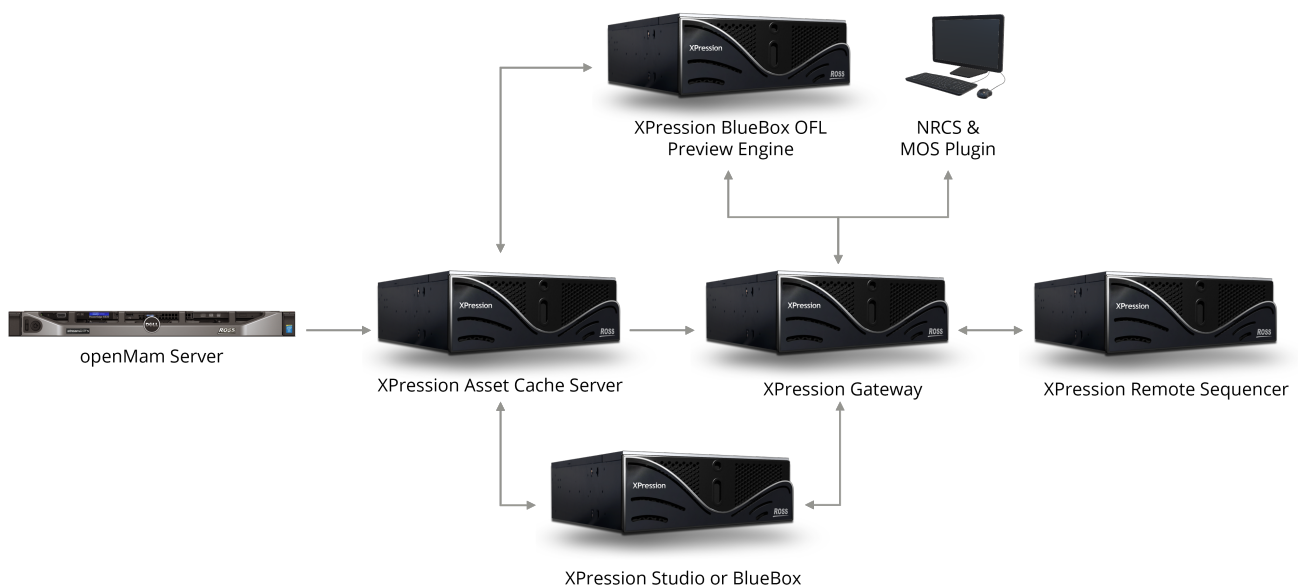
- 1) **Menu Bar** — access the File menu and the asset file cache.
- 2) **MOS Gateway** — lists the status and details of the connection of the Asset Cache Server to the MOS Gateway.
- 3) **OpenMAM Queue** — displays the items from openMAM servers that have been downloaded or are queued to be downloaded to the asset cache.
- 4) **MOS Object Monitor** — lists the rundowns from the MOS Gateway.
- 5) **Log** — displays the activity of the Asset Cache Server.

# Workflow

The Asset Cache Server maintains a tightly coupled connection with the XPression Gateway to keep an up-to-date list of monitored rundowns and the stories/items contained within them. When a rundown is monitored in the NRCS, it will be made available to the Asset Cache Server software which will parse the rundown for any MOS objects containing openMAM graphics objects. These assets will be polled periodically to check for updated versions on the MAM system.

When a rundown is activated in the XPression Remote Sequencer for playout, the XPression engines will be made aware of the rundown. Instead of fetching the asset from the MAM, the XPression engine will check the folder on the Asset Cache Server machine for the asset (through use of a shared network drive). The XPression engine must be able to make a successful connection to the MAM system to retrieve metadata related to the asset.

Several playout engines may connect to the same Asset Cache Server.



## *XPression Asset Cache Server Workflow*

The overall advantage of using the Asset Cache Server is to have the local playout engines access localized assets and not from the remote MAM system. When large assets (such as video clips) are used, it is advantageous that they begin downloading as soon as the rundown is monitored rather than waiting until the rundown is activated for playout.

# XPression Asset Cache Server Installation

To use the XPression Asset Cache Server, the following is required:

- XPression v6.5\_3600 or higher
- XPression Gateway / MOS Plugin
- A licensing dongle that is programmed to support the Asset Cache Server

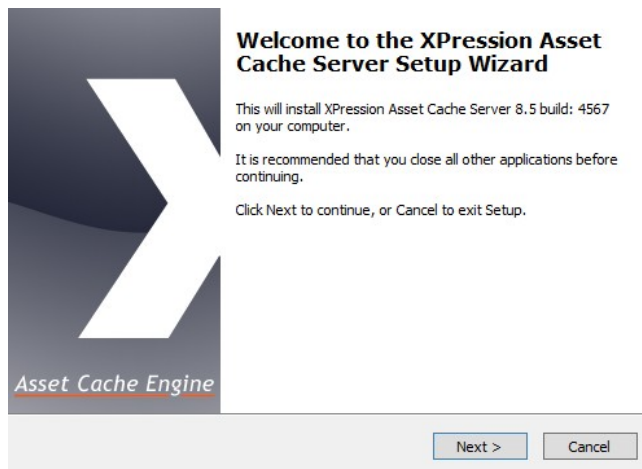
## Installing the XPression Asset Cache Server

Use the following procedure to complete the install of the XPression Asset Cache Server:

### To install the XPression Asset Cache Server:

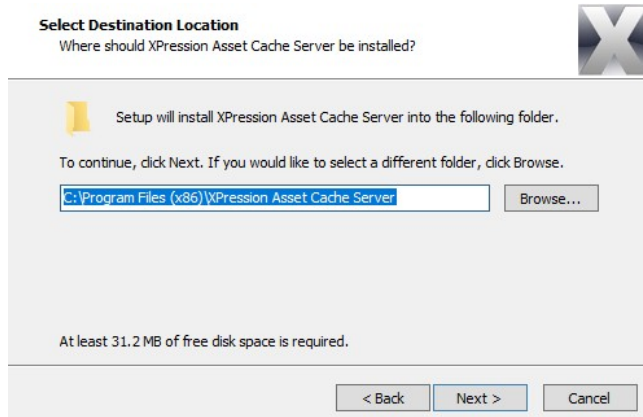
1. From your **File Explorer**, locate and select the **xpAssetCacheServer-X.X\_XXXX.exe** file.

The **Setup - XPression Asset Cache Server** page opens.



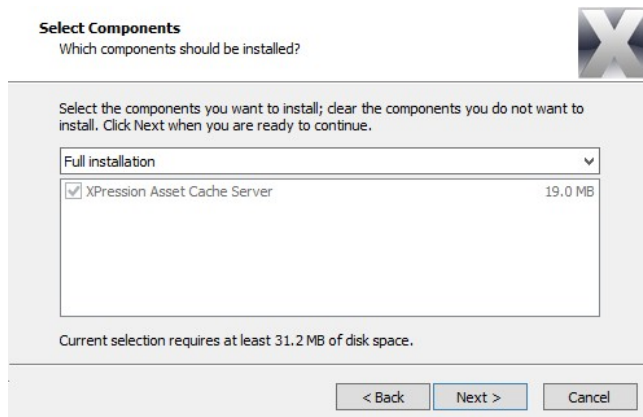
2. Select **Next**.

The **Select Destination Location** page opens.



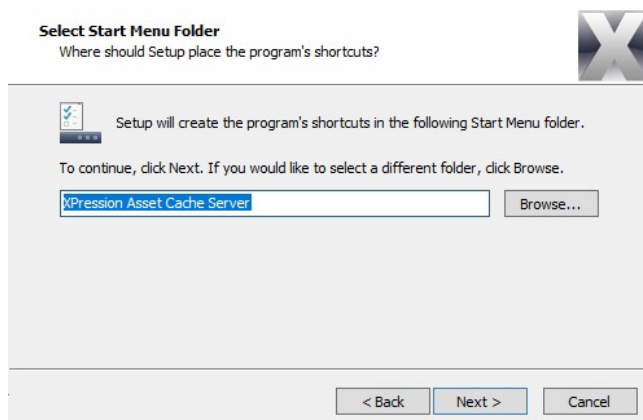
3. Use the default destination folder location or select **Browse** to choose a different destination location, and select **Next**.

The **Select Components** page opens.



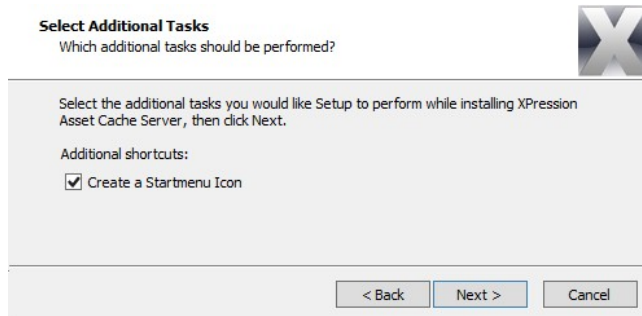
4. Select **Next**.

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



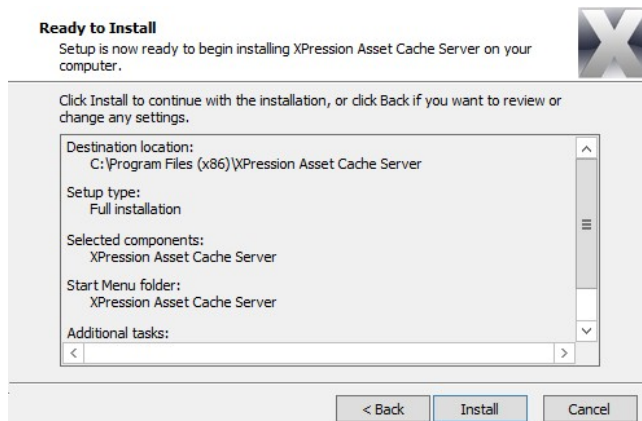
5. Use the default **Start Menu** folder location, or click **Browse** to choose a different **Start Menu** location, and then select **Next**.

The **Select Additional Tasks** page opens.



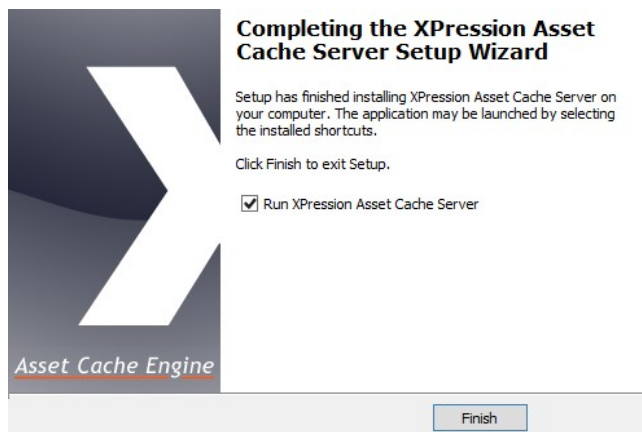
6. Select the **Create a Startmenu Icon** checkbox to add the **XPression Asset Cache Server** icon to the Windows Start Menu, and select **Next**.

The **Ready to Install** page opens.



7. Select **Install**.

The installation begins. Once the installation is complete, the **Completing the XPression Asset Cache Server Setup Wizard** page opens.



8. Select **Finish**.

If the **Run XPression Asset Cache Server** checkbox is selected and the installation was successful, the program launches.

# Using the XPression Asset Cache Server

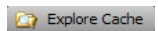
Use the XPression Asset Cache Server interface to manage connections to the MOS Gateway and openMAM servers, monitor assets being downloaded to the cache, and view the current activity log.

## Menu Bar

Use the menu bar to access the **File** menu and the asset file cache.

**File > Settings** — select this to open the **XPression Asset Cache Server - Settings** window to configure the connection to the MOS Gateway, the cache location, and the openMAM settings.

**File > Exit** — select this to close the XPression Asset Cache Server.






— select this button to open the folder that contains the downloaded assets.

## MOS Gateway

Use the MOS Gateway section to see a list of the status and details of the connection of the Asset Cache Server to the MOS Gateway.

**Connection Icon** — three possible connection icons indicate the current status of the connection to the MOS Gateway:

-  — green indicates that the Asset Cache Server is connected to the MOS Gateway.
-  — blue indicates that the Asset Cache Server is attempting to connect to the MOS Gateway.
-  — red indicates that the Asset Cache Server is not connected to the MOS Gateway.

**Name** — displays the name of the MOS Gateway.

**Status** — indicates the current state of the connection to the MOS Gateway.

**Host** — displays the IP address or hostname.

## OpenMAM Queue

Use the OpenMAM Queue section to see the items from openMAM servers that have been downloaded or are queued to be downloaded to the asset cache.

**Status** — indicates the current status of the file download.

**Name** — the name of the file.

**Filename** — the name of the file in the asset cache folder.

**Rundown** — the name of the rundown for the file in the **Running Orders** of the **MOS Object Monitor**.

**ID** — the MOS ID.

## MOS Object Monitor

Use the MOS Object Monitor section to see a list of the rundowns from the MOS Gateway.

**Running Orders** — expand this to view the rundowns from the MOS Gateway.

## Log

Use the log to see a list the Asset Cache Server's activity.

★ Logs are available in the installation folder. The default location is **C:\Program Files (x86)\XPression Asset Cache Server\logs**.

# Configuring the XPression Asset Cache Server

The **Asset Cache Server** is often run on a separate machine from other components in the XPression workflow. A folder should be shared and accessible from all XPression layout engines.

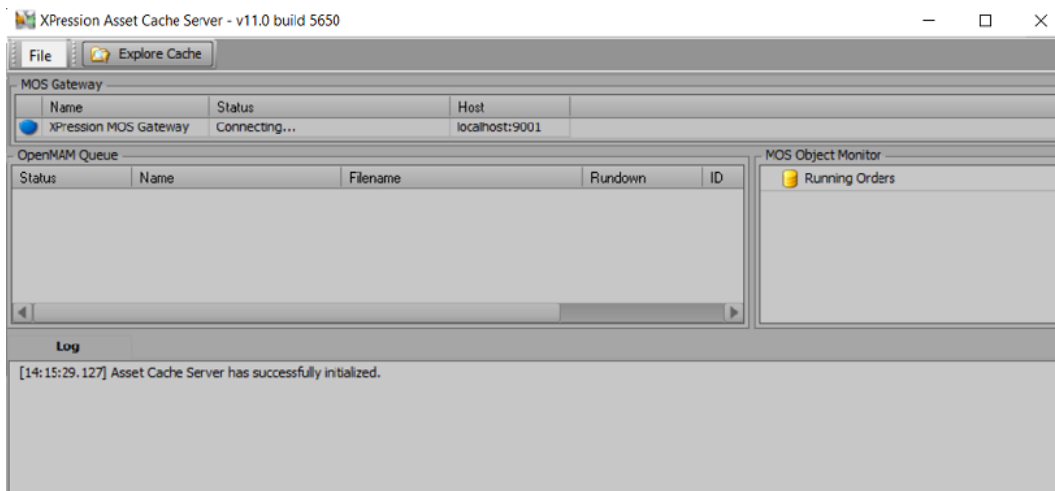
The **Asset Cache Server** should be configured with the hostname of the Gateway and the openMAM connection details need to be entered.

Once the **Asset Cache Server** has been set up, a connection to the **MOS Gateway** is established.

The **Asset Cache Server** will monitor the rundowns for graphics and automatically download them to the cache as required. The status of each openMAM asset is visible in the **OpenMAM Queue**.

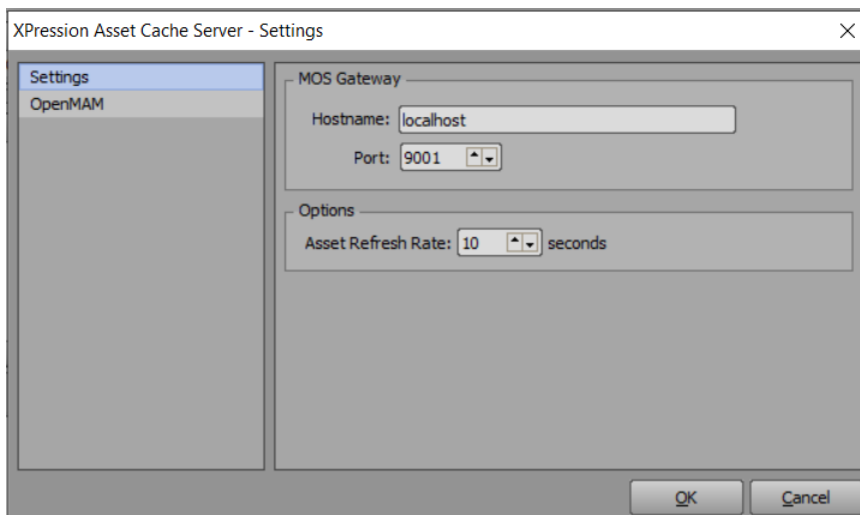
## To configure the Asset Cache Server:

1. Open the **XPression Asset Cache Server**.

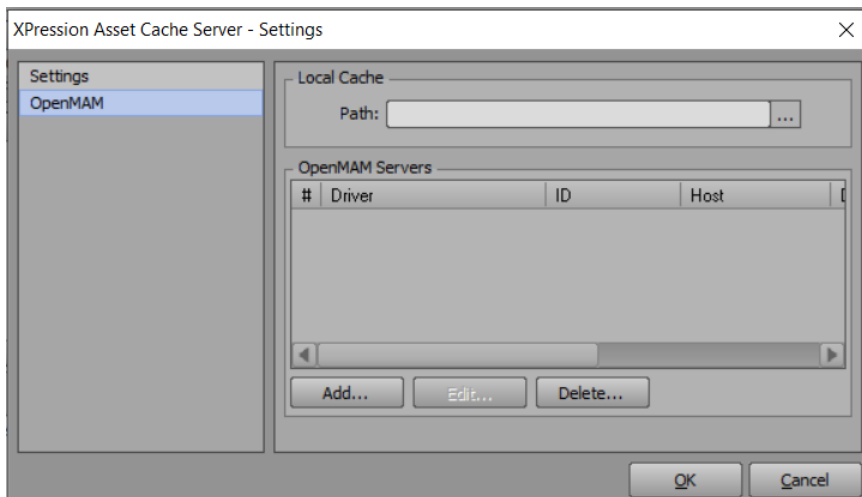


2. From the **XPression Asset Cache Server**, go to **File**, and then select **Settings**.

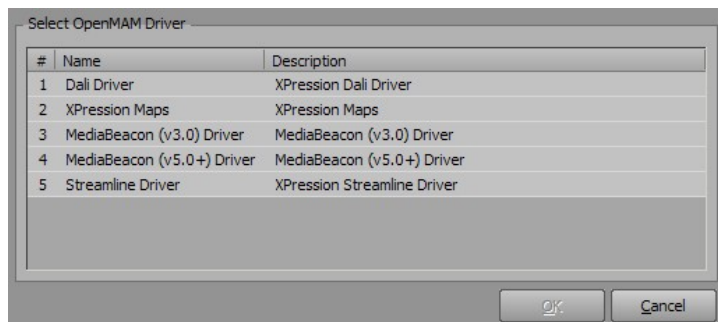
The **XPression Asset Cache Server - Settings** window opens and displays the **MOS Gateway** panel.



3. In the **Hostname** field, enter the **IP address** or **Hostname** of the **Gateway**.  
If using the **Gateway** locally, use **localhost** (the default setting).
4. In the **Port** field, enter or select the **Port Number** for the **Gateway Connection**.  
The default is **9001**.
5. In the **Asset Refresh Rate** field, enter or select the amount of time in seconds for the **Gateway** to refresh the assets on the server.  
The default time is ten seconds.
6. Select the **OpenMAM** panel to configure the **OpenMAM Connection Settings**.  
The **OpenMAM** panel opens.



7. In the **Local Cache** section, enter the **File Path** to the asset cache folder or select **Browse** to locate a folder.  
★ The folder needs to be visible to the render engines.
8. In the **OpenMAM Servers** section, select **Add** to configure a server.
9. The **Select OpenMAM Driver** window opens.



10. Select an **OpenMAM Driver**, and select **OK**.

The selected **OpenMAM Driver Configuration** window opens.

See the appropriate section for configuration instructions for the selected driver. You may add as many **OpenMAM Drivers** as needed.

[Configuring the Dali Driver](#) 

[Configuring the XPression Maps Server](#) 

[Configuring the MediaBeacon \(v3.0\) Driver](#) 

[Configuring the MediaBeacon \(v5.0+\) Driver](#) 

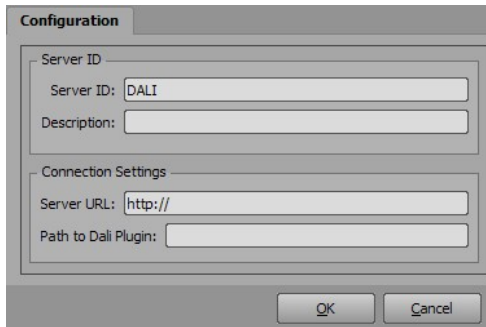
[Configuring the Streamline Driver](#) 

## Configuring the Dali Driver

Follow this procedure to configure the Dali driver.

### To configure the Dali Driver

1. In the **Dali Configuration** window, in the **Server ID** field, enter the **MOS ID**.



The screenshot shows a 'Configuration' dialog box with the following fields:

- Server ID:** DALI
- Description:** (empty)
- Server URL:** http://
- Path to Dali Plugin:** (empty)

Buttons: OK, Cancel

2. In the **Description** field, enter a brief and unique descriptor to identify the driver.
3. In the **Server URL** field, enter the URL address of the host connection.
4. In the **Path to Dali Plugin** field, enter the file path to the **Dali Client Executable** file.
5. Select **OK**.

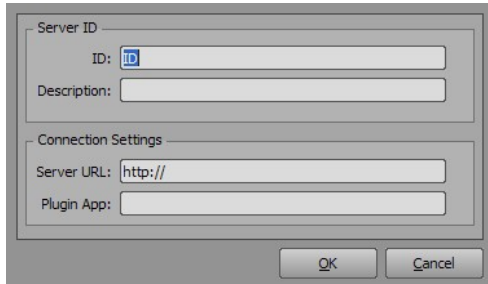
The **OpenMAM Driver Configuration** window closes and the driver is added to the **OpenMAM Servers** list.

# Configuring the XPression Maps Server

Follow this procedure to configure the XPression Maps Server.

## To configure the XPression Maps Server

1. In the **XPression Maps Server** window, in the **ID** field, enter **MOS ID**.

The image shows a dialog box titled "Server ID" and "Connection Settings". The "Server ID" section contains an "ID:" field with the text "ID" inside, and a "Description:" field below it. The "Connection Settings" section contains a "Server URL:" field with the text "http://" inside, and a "Plugin App:" field below it. At the bottom of the dialog box are "OK" and "Cancel" buttons.

2. In the **Description** field, enter a brief and unique descriptor to identify the driver.
3. In the **Server URL** field, enter the **URL** address of the host connection.
4. In the **Plugin App** field, enter the location of the computer where the **XPression Maps Web Client** is located.
5. Select **OK**.

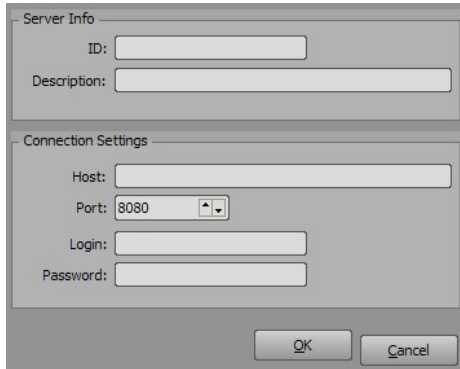
The **OpenMAM Driver Configuration** window closes and the driver is added to the **OpenMAM Servers** list.

# Configuring the MediaBeacon (v3.0) Driver

Follow this procedure to configure the MediaBeacon (v3.0) Driver.

## To configure the MediaBeacon (v3.0) Driver

1. In the **MediaBeacon Driver Configuration** window, in the **ID** field, enter **MOS ID**.



2. In the **Description** field, enter a brief and unique descriptor to identify the driver.
3. In the **Host** field, enter the address of the host connection.
4. In the **Port** field, enter or select the port number of the connection.  
The default is **8080**.
5. In the **Login** field, enter the login name for the **MediaBeacon Server**.
6. In the **Password** field, enter the password for the login.
7. Select **OK**.

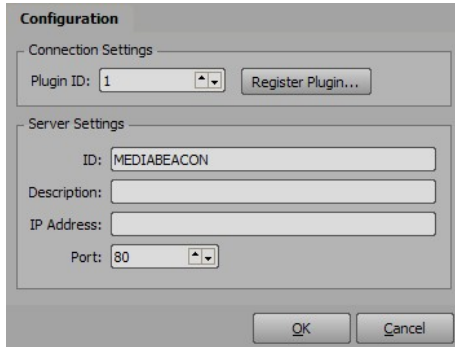
The **OpenMAM Driver Configuration** window closes and the driver is added to the **OpenMAM Servers** list.

## Configuring the MediaBeacon (v5.0+) Driver

Follow this procedure to configure the MediaBeacon (v5.0+) Driver.

### To configure the MediaBeacon (v5.0+) Driver

1. In the **Configuration** window, in the **Plugin ID** field, enter or select an **ID Number** for authentication with **MediaBeacon**.



2. Select **Register Plugin** to login to **MediaBeacon** and register the **Plugin ID**.
3. In the **ID** field, enter the **MOS ID**.
4. In the **Description** field, enter a brief and unique descriptor to identify the driver.
5. In the **IP Address** field, enter the **IP Address** of the connection.
6. In the **Port** field, enter or select the **Port Number** of the connection.
7. Select **OK**.

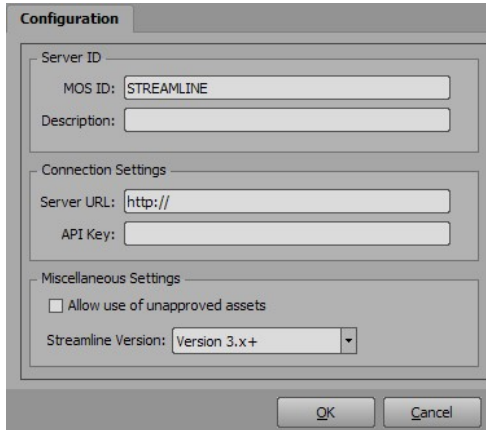
The **OpenMAM Driver Configuration** window closes and the driver is added to the **OpenMAM Servers** list.

# Configuring the Streamline Driver

Follow this procedure to configure the Streamline Driver.

## To configure the Streamline Server

1. In the **Streamline Server** window, in the **MOS ID** field, enter **Streamline**.



The screenshot shows a 'Configuration' dialog box with three sections: 'Server ID', 'Connection Settings', and 'Miscellaneous Settings'. The 'Server ID' section has a 'MOS ID' field containing 'STREAMLINE' and an empty 'Description' field. The 'Connection Settings' section has a 'Server URL' field containing 'http://' and an empty 'API Key' field. The 'Miscellaneous Settings' section has an unchecked checkbox for 'Allow use of unapproved assets' and a 'Streamline Version' dropdown menu set to 'Version 3.x+'. At the bottom are 'OK' and 'Cancel' buttons.

2. In the **Description** field, enter a brief and unique descriptor to identify the driver.
3. In the **Server URL** field, enter the URL address of the host connection.
4. In the **API Key** field, enter an **API Key** to communicate with **Streamline from XPression**. The API key is generated by Streamline.
5. In the **Miscellaneous Settings** section, select the **Allow use of unapproved assets** checkbox to allow unapproved assets to be taken online.
6. From the **Streamline Version** drop-down, select the version of the **Streamline OpenMAM** server that is being used.
7. Select **OK**.

The **OpenMAM Driver Configuration** window closes and the driver is added to the **OpenMAM Servers** list.



## Contact Us

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- Product information and pricing
- Technical support
- Upcoming trade show information

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	<b>After Hours Emergency:</b>	+1 613 • 349 • 0006
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	<b>Website:</b>	<a href="http://www.rossvideo.com">http://www.rossvideo.com</a>

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