CAMIO ADMINISTRATOR'S MANUAL

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Related Publications

Title	Publication No.	Rev
CAMIO Producer's Manual	2A02236	A
CAMIO Art Department Manual	2A02239	B
CAMIO Playout Manual	2A02240	A

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CHAPTER 1 INTRODUCTION

Purpose of This Manual

This manual is a guide for CAMIO engineers and administrators to installing, configuring, and administering the CAMIO MOS System, which normally includes

- CAMIO MOS server
- Newsroom Computer System Client Workstations
- Graphics Preparation Workstations
- Lyric-based Playout Devices

This manual does not include operating instructions for the Newsroom Client, Graphics Preparation, or Playout Device Software. These instructions are available in the applicable Operator's manuals.

Manual Organization

Here is a quick overview of the chapters in the manual.

- **CHAPTER 1** INTRODUCTION - gives the purpose of this manual, its organization, and customer support information.
- **CHAPTER 2** OVERVIEW - describes the CAMIO System.
- **CHAPTER 3** INSTALLING and CONFIGURING the NEWSROOM CLIENT (PRODUCER'S) WORKSTATION SOFTWARE - installation and configuration information is provided here.
- **CHAPTER 4** INSTALLING and CONFIGURING GRAPHICS PREPARATION WORKSTATION SOFTWARE - installation and configuration information is provided here.
- **CHAPTER 5** INSTALLING and CONFIGURING the Lyric-based PLAYBACK DEVICE SOFTWARE - Lyric-based playback device software installation and configuration information is provided.
- **CHAPTER 6** CAMIO ADMIN TOOL UTILITY - describes the CAMIO Admin Tool Utility, and provides step-by-step instructions of important procedures.
- **CHAPTER 7** CAMIO ASSET MANAGER - describes the new CAMIO Asset Manager.
- **APPENDIX A** INSTALLING CAMIO SOFTWARE UPDATES - provides the procedures you will need to update your software.
- **APPENDIX B** INSTALLING and CONFIGURING CAMIO SERVER SOFTWARE - provides installation and configuration instructions.
- **APPENDIX C** GLOSSARY - contains terms users need to understand the CAMIO MOS System and its operation.

- **APPENDIX D** CHANNEL ASSIGNMENT for LYRIC TEMPLATES in CAMIO - procedures for assigning default channel assignments are given.
- **APPENDIX E** RESTORING from a BACKUP FILE - procedures for restoring from a backup file are given.
- **APPENDIX F** CAMIO LEGACY ASSET MANAGER - describes the prior version of the CAMIO Asset Manager and gives installation instructions.
- **APPENDIX G** MIME TYPES - a list of MIME types is provided.

Customer Support

For customer support, call *1-888-4-CHYRON (1-888-424-9766)*.

Visit the Chyron Website at **www.chyron.com**, for immediate access to our forums and knowledge base, and an array of documentation downloads and other information to assist you.

CHAPTER 2 OVERVIEW

STREAMLINE NEWSROOM WORKFLOW

CAMIO is the singular solution for newsroom operations that depend on accurate, lightning-fast exchange of information and graphics. With CAMIO integrated into the newsroom—see Figure 1, graphic operations are streamlined, and journalists and producers have unprecedented control over the look and content of news graphics.

Integrated with MOS Newsroom Computer Systems (NCS) such as AP® ENPS®, Avid® iNews®, Dalet® OpenMedia and Samsung®, CAMIO transforms the graphics creation workflow by enabling journalists and producers to create and edit template-based text and graphics for real-time playout on Chyron's Lyric-based CG systems.

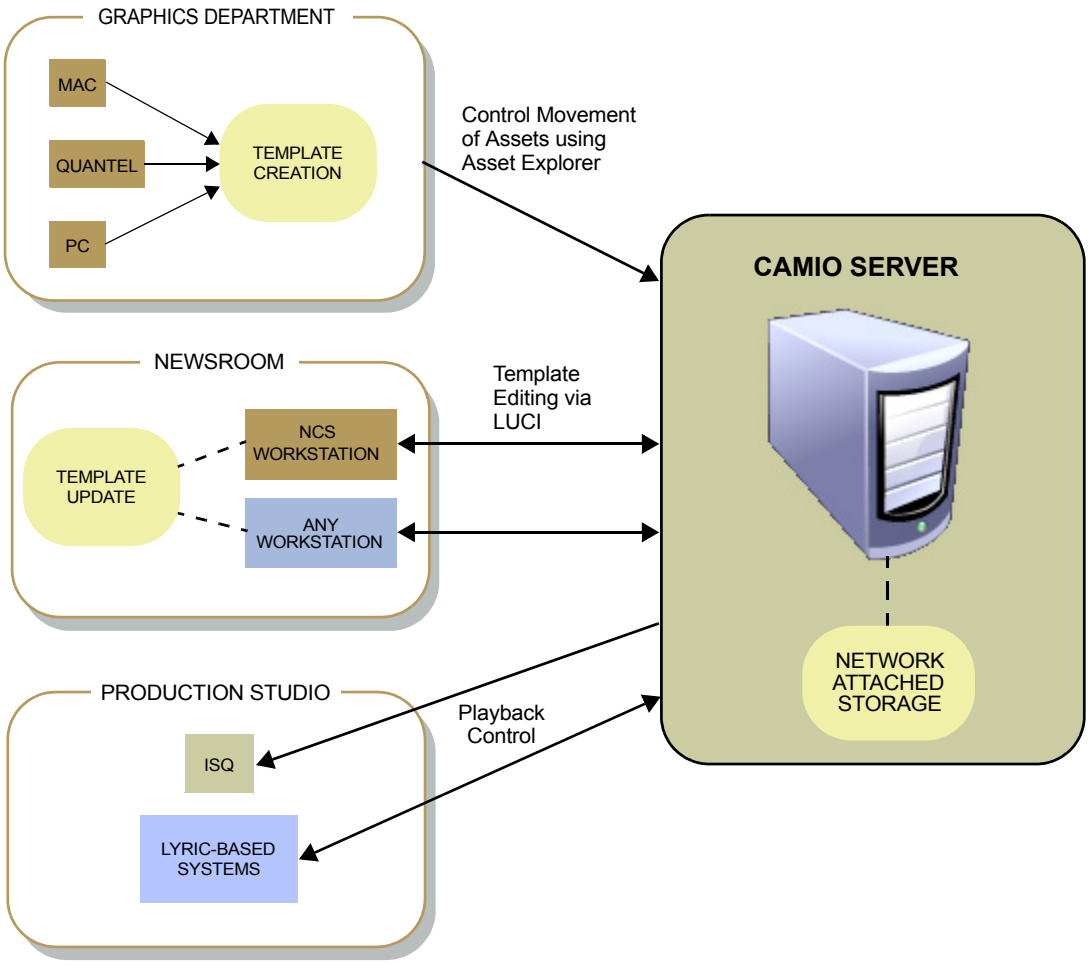


Figure 1 CAMIO Workflow

EFFICIENT ASSET BROWSING and GRAPHICS PRODUCTION

Via our LUCI (Lyric Universal Control Interface) ActiveX® interface, an NCS user can, from a newsroom workstation, remotely access a library of templates from the CAMIO Server for quick page creation and update of text, graphics, and videos. Chyron's powerful asset management tools, search engine, and visual browser make it easy to locate templates, images, and videos on a central server. Completed pages can be previewed in LUCI's WYSIWYG interface, associated with a story in an ordered rundown on the NCS, and then automatically sent to a Playlist for playout to air.

Changes in the rundown are quickly and automatically reflected in a Playlist on the system. Because journalists and producers are directly involved in the final output, there is far less opportunity for error, and they can quickly make last-minute changes without involving a graphic artist or Lyric-based operator. The LUCI ActiveX interfaces directly with the CAMIO Server, using Lyric to display thumbnail previews accompanied by comprehensive text descriptions and metadata. The Chyron Asset Manager makes it easy to organize and manage content based by show, topic, type, etc., from any PC on the network. Because the graphics are based on existing, reusable templates, images, and videos created by the graphics department, CAMIO speeds the production of pages, unifies channel branding, and eliminates the need for an artist to create each page for a news broadcast. This frees artists for other tasks and increases output of the graphics department.

CENTRALIZED ASSET MANAGEMENT

CAMIO uses its technology to integrate browsing, creation, editing and management of media assets. Since assets are uploaded to a single location, multiple workstations and newsrooms can all access the same assets.

CHAPTER 3 INSTALLING and CONFIGURING the NEWSROOM CLIENT (PRODUCER'S) WORKSTATION SOFTWARE

LUCI INSTALLATION

INSTALLATION

LUCI Software can be installed locally at each workstation, or can be installed remotely using Actve Directory or PsExec.

LOCAL INSTALLATION

1. Log-in to the Newsroom client workstation with an administrative account.
2. Depending on the security levels of your internet browser, you may need to add the CAMIO server as a trusted site in the Internet settings of your browser. To do this:
    a. From the Internet Browser menu, select **Tools>Internet Options**. The **Internet Options** dialog box opens.
    b. Select the Security tab. Click on **Trusted sites**.
    c. Click on **Sites**. The **Trusted Sites** dialog box is displayed.
    d. Enter the following URL: **http://<CAMIO_SERVER>**, where **<CAMIO_SERVER>** is the network name of the CAMIO server.
    e. Uncheck the **Require sever verification (https) for all sites in this zone** check box.
    f. Click **Add**.
    g. Close the **Trusted sites** and **Internet Options** dialogs.
    h. Restart your Internet Browser.
3. Go to Installer Web page **http://<CAMIO_SERVER>:8080/install.tsp**, where **<CAMIO_SERVER>** is the network name of the CAMIO server.
4. Click on **LUCI** (Chymox ActiveX).
5. Click on **RUN** on the next two dialog boxes, to start **Install Shield Wizard**.
6. If an older version of LUCI is installed on your system, select **Remove** from the **Modify, Repair, Remove** dialog box that appears, to remove the old version of LUCI.
7. Select ***No, do not restart computer***, when prompted
8. Repeat installation steps 3 and 4.
9. Enter your CAMIO Server hostname when prompted, and click on **Install**.

REMOTE INSTALLATION

1. Log-in to the CAMIO Server with the CAMIO account.
2. Go to Installer Web page **http://localhost:8080/install.tsp**.
3. Click on and follow the instruction for installing LUCI remotely using Active Directory or PsExec.

CONFIGURING LUCI

Configuring LUCI comprises the following:

Using the CAMIO Admin Tool **User Manager** to:

- Create a User. Set which tabs and asset details are visible in LUCI. See “CAMIO USER MANAGEMENT” on page 70, and follow the directions provided there.

Using the CAMIO Admin Tool **MOS Manager** to:

- Specify how details of the assets are displayed in LUCI. See “CAMIO MOS MANAGEMENT” on page 46 and follow the directions provided there.

SETTING LUCI PREFERENCES

Refer to *Setting LUCI Preferences* in the **CAMIO Producer’s Manual** (Publication No. 2A02236, Rev A).

CHAPTER 4 INSTALLING and CONFIGURING GRAPHICS PREPARATION WORKSTATION SOFTWARE

INSTALLING LYRIC and ASSOCIATED TASKS

MINIMUM SYSTEM REQUIREMENTS

Before installing Lyric, be sure your system meets the following minimum requirements:

- Windows® XP with Service Pack 2 or Windows Vista® operating system. If using Vista, then Lyric must either be RUN AS ADMIN, or USER ACCOUNT CONTROL must be set to **OFF** in order to have full functionality. Please note that RUN AS ADMIN provides greater security.
- Intel® Core™ 2 Duo processor
- nVidia® 8 or better series video card with minimum 512MB RAM
- 100GB drive space; physical or virtual drives should be configured to match the playout system to facilitate message and asset transfer.
- 2GB of RAM
- Standard keyboard

INSTALLING LYRIC

ABOUT LYRIC SOFTWARE LICENSING

Important

Lyric 7 and the Lyric PRO option require the presence of a Chyron-supplied dongle in the system in order to run. Dongles that have enabled older versions of Lyric on existing Chyron systems ARE NOT compatible with Lyric Version 7. They must therefore be reprogrammed. Please contact Chyron Customer Service at 631-845-2132 if you are upgrading a Chyron system to Lyric Version 7.

Newly-purchased Chyron systems include either Lyric Version 7 or the Lyric PRO option, as ordered by the customer, with the purchased options enabled. Therefore, no licensing updates are required.

- To purchase and enable additional software options, please contact Chyron Customer Service.
- Newly purchased Lyric 7 Offline and Lyric PRO Offline packages include a dongle kit programmed with the appropriate options.

Full instructions for upgrading a Chyron system running a previous version of Lyric to Lyric 7 or Lyric 7 PRO may be found in the Lyric 7 Release Notes, Chyron Document Number 2a02249.

To install Lyric:

1. Insert the installation CD in your CD-ROM drive.

2. Locate and double-click the Lyric setup icon on the installation CD.

3. Click on **Next**. The Chyron Welcome screen is displayed (Figure 2). Read the information provided there.

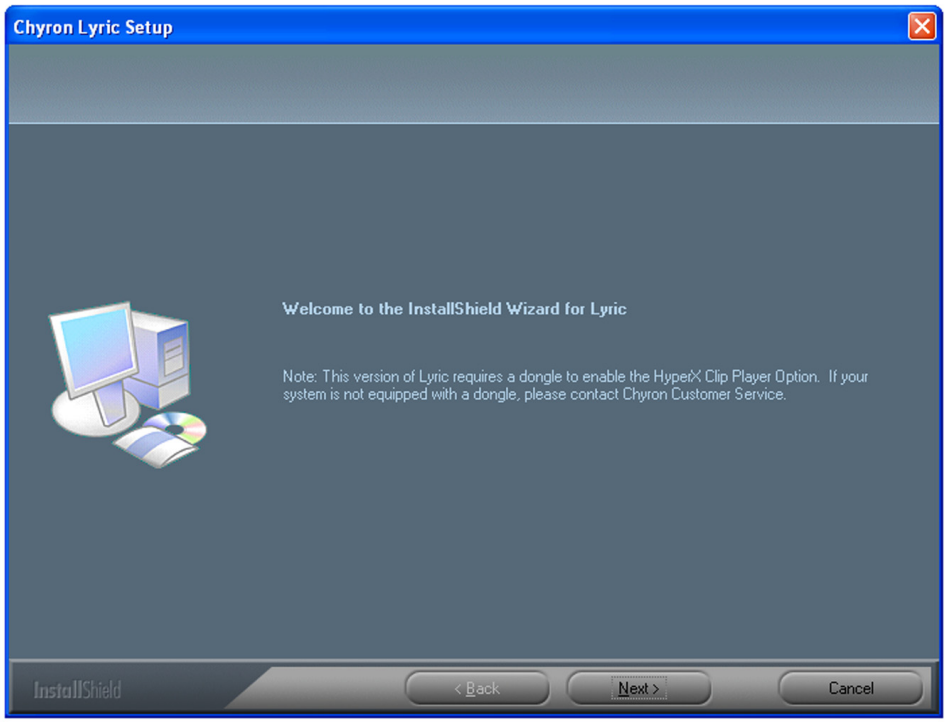


Figure 2 Chyron Lyric Welcome Screen

4. Click on **Next**. The **Lyric License Requirements** dialog box (Figure 3) appears.Click on **Yes** to continue with the installation.

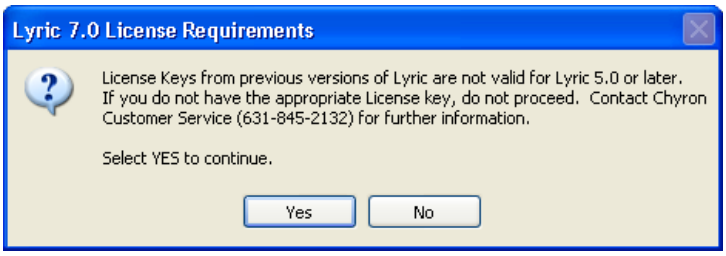


Figure 3 Lyric License Requirements

5. The License Agreement window (Figure 4).

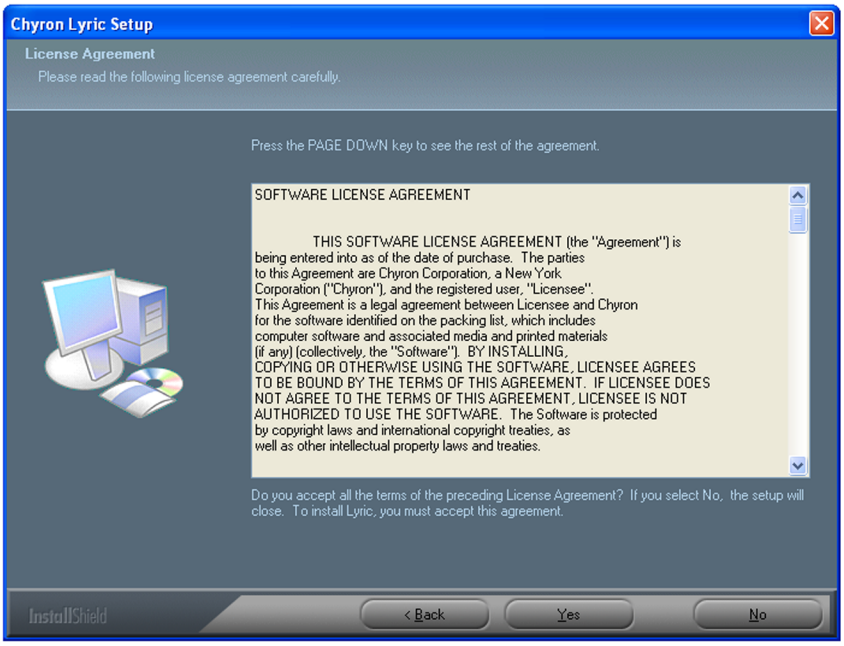


Figure 4 License Agreement

6. After reading and accepting all the terms of the license, click on **Yes**. The **Choose Destination Location** window (Figure 5) is displayed.

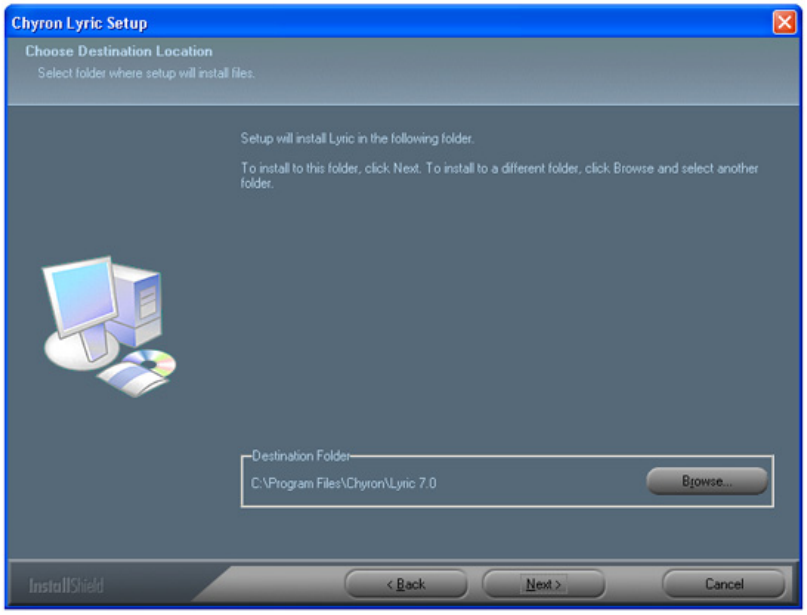


Figure 5 Destination Folder

7. Click on **Next** to install Lyric in the selected folder, or click on **Browse** and select another folder. The **Setup Type** window (Figure 6) is displayed.

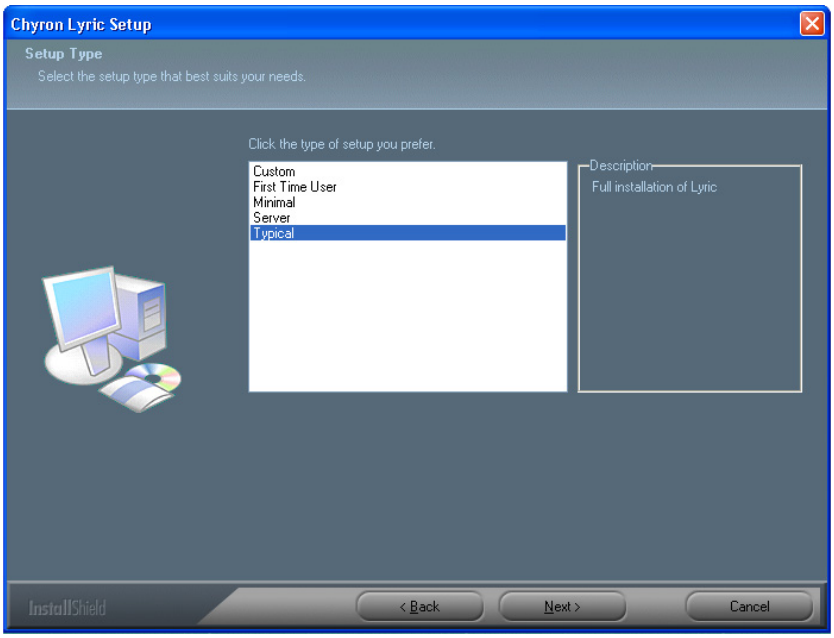


Figure 6 Setup Type

8. Select the type of setup you prefer:

- **Custom**—select the features you want to install
- **First Time User**—have sample content installed with Lyric
- **Minimal**—install Lyric and minimum supporting DLLs
- **Server**—installs Lyric as a typical installation but registers the application as a Service
- **Typical**— if you do not require sample content

9. Click on **Next**. The **Select Program Folder** window (Figure 7) is displayed.

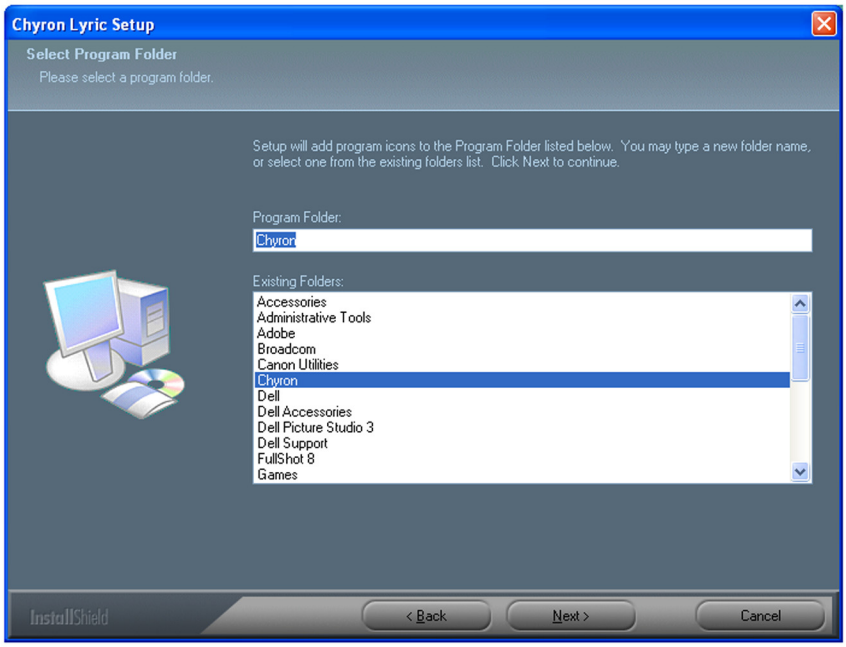


Figure 7 Select Program Folder

10. Select a program folder. Click on **Next**. Lyric is now installed.

11. After Lyric is installed, the SentinelLM 6.2 Server Setup screen is displayed (Figure 8). Follow the on-screen instructions.

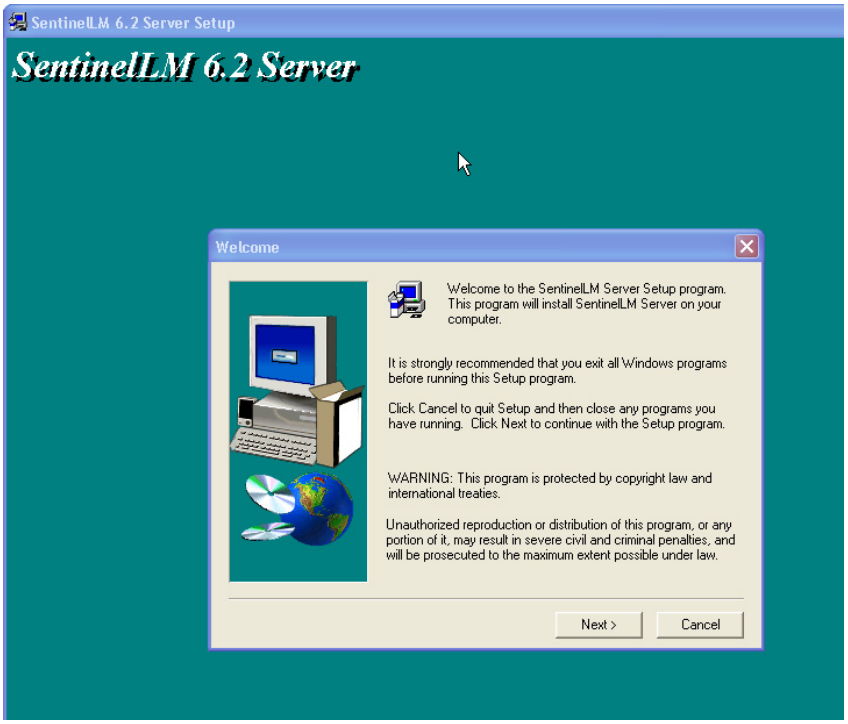


Figure 8 SentinelLM Server Setup

12. After installing the server, the Lyric Setup Complete screen is displayed (Figure 9).

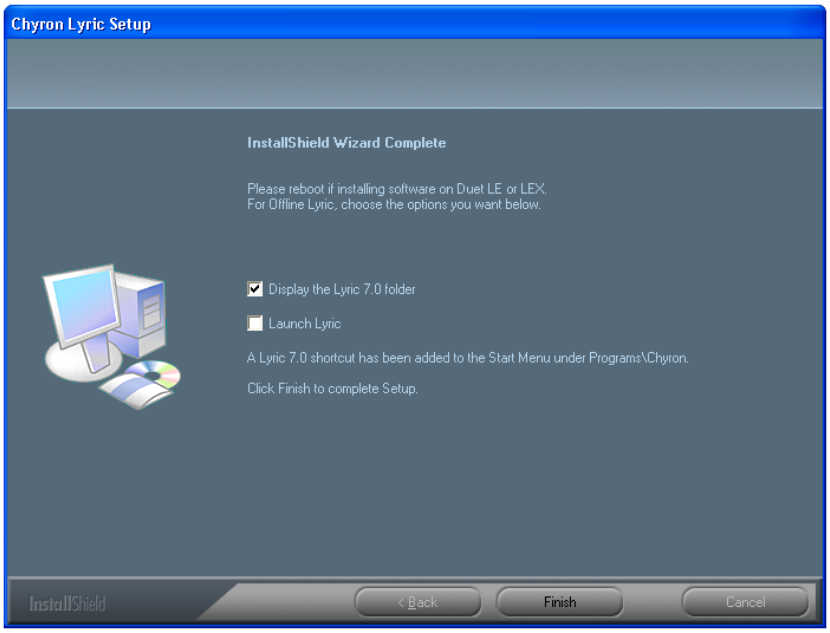


Figure 9 Lyric Setup Complete

13. Click **Finish** to complete the setup.

14. Next, install the Lyric MOS XML plug-in. This will add XML tags to all **Lyric Messages** saved on that version of Lyric (existing messages will need to be re-saved to get the XML tag).

INSTALLING the LYRIC MOS XML PLUG-IN

Important

This plug-in needs to be installed on each version of Lyric that will be creating content that will be accessed by the CAMIO server.

To enable Lyric on the playout device to interpret and act on the **MOS** and **XML** information it receives from the CAMIO Server, the Lyric MOS XML plug-in and the **MSXML4** dll must be installed on the playout system.

The installation of the MSXML4 dll is performed automatically and is transparent to the user.

To install the Lyric MOS XML plug-in:

Important

The CAMIO Server must already be installed on the network before you can install this plug-in.

1. Navigate to **http://camioserver:8080/install.tsp**, where ***camioserver*** is the name of the camio server.

2. Double-click on the Lyric MOSXML Plugin.exe icon.

3. The **MOSXML Plug-in Welcome** window (Figure 10) opens.

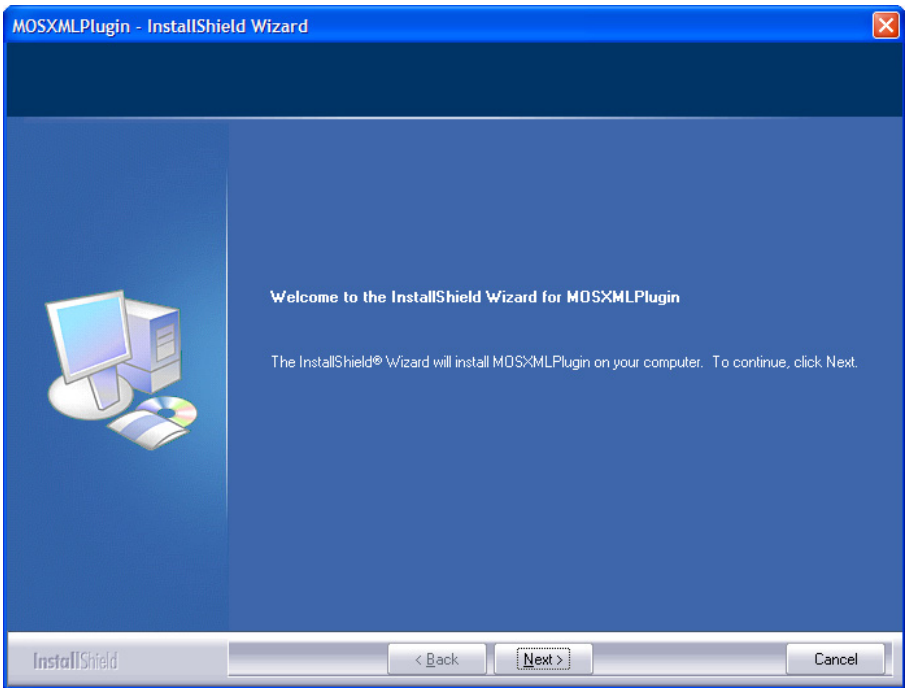


Figure 10 Welcome to Lyric MOS XML Plug-in Setup

4. Click **Next**. The **Choose Destination** window (Figure 11) opens.

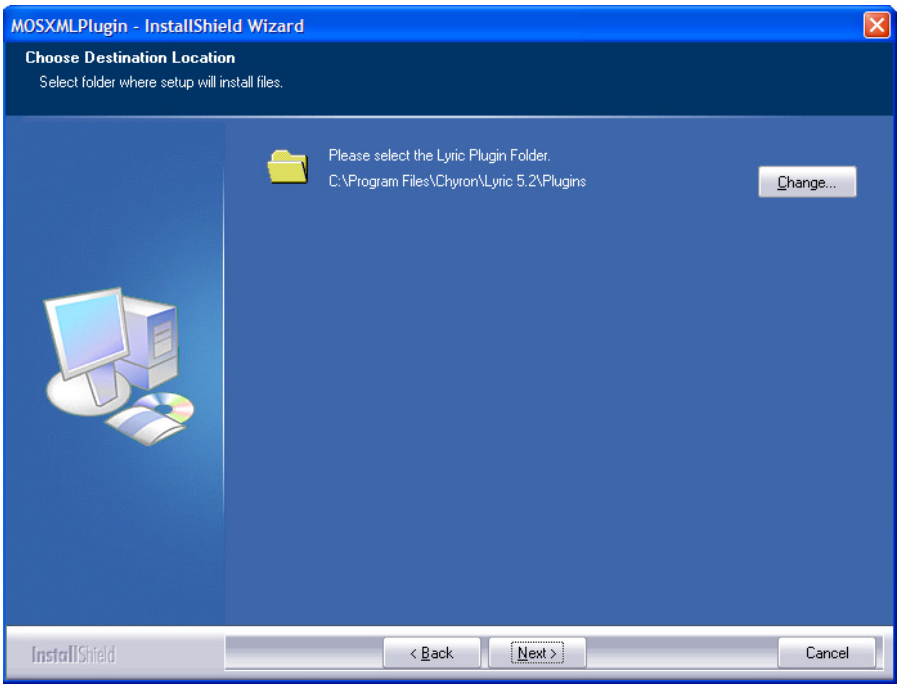


Figure 11 Choose Destination

In the next step, be sure to install the files in the correct folder.

5. Select the folder where the files will be installed based on the version of Lyric that will be used on this system to compose new Lyric messages.

6. Click **Next**, and follow the online instructions.

INSTALLING the NEW ASSET MANAGER

To install Asset Manager:

1. Open Internet Explorer.

2. Enter the following URL: **http://<*servername*>:8080/assetmanager** (8080 is the data connection port used by CAMIO and **<*servername*>** is the name of the CAMIO server).

INSTALLING JAVA SE 6 (if not already installed)

Before installing JAVA, check If there is an older version of Java installed on the client PC. If there is, remove it to ensure that the proper version is loaded.

To do this:

1. Open the Windows **Control Panel**. Double-click on **Add or Remove Programs**. The **Add or Remove Programs** dialog displays.

2. Check that the version of the Java Runtime currently installed is Java SE 6 Update 10. If it is not, remove it.

3. From the client workstation, log on to the CAMIO Server from Internet Explorer using the URL: **http://<*servername*>:8080/assetmanager** (8080 is the data connection port used by CAMIO and ***servername*** is the name of the CAMIO server). The CAMIO Server automatically loads the Java Runtime.

SETTING JAVA POLICY

To Set Java Policy for the new Asset Manager, perform the following procedures (**Launching the Java Policy Tool, Adding the Policy Entry, Setting Permissions, and Saving the Policy Entry**) in the order given.

Launching the Java Policy Tool:

1. On the workstation, locate the folder containing the highest revision of Java on the computer (**c:\program files\Java\jre1.6.x\bin**). Within that folder, locate the Java policy tool executable, **policytool.exe**, and double-click on it to launch the application. See Figure 12.

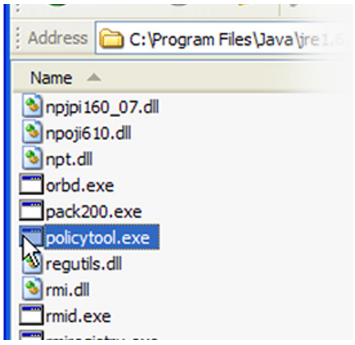


Figure 12 Java Policy Tool Executable

2. A DOS Command window will display and the **Policy Tool** application (Figure 13) will open. The Policy Tool may display multiple entries, including an entry for the Legacy Asset Manager of the same CAMIO. This information may stay in the Policy Tool unchanged.

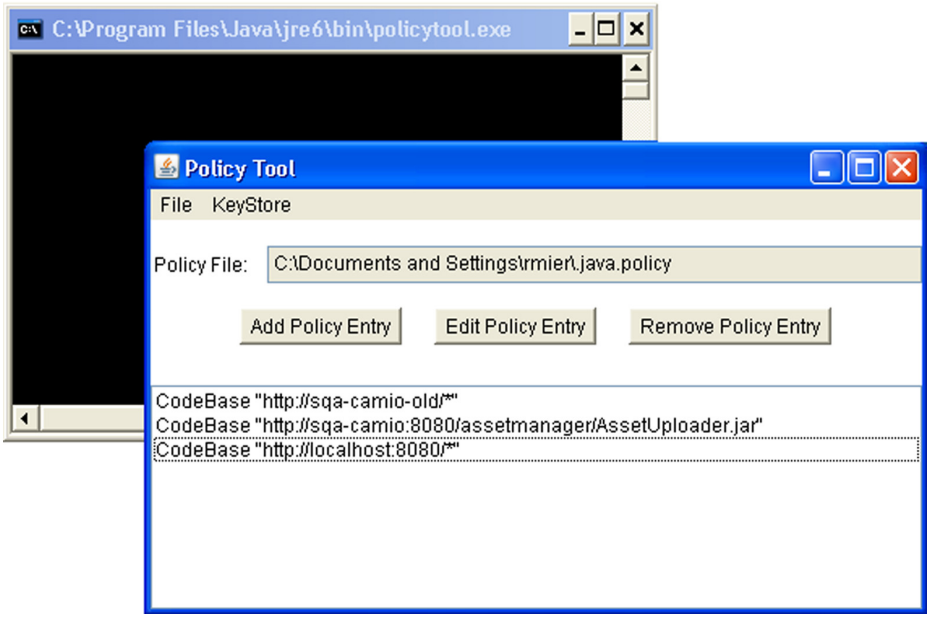


Figure 13 Policy Tool

Adding the Policy Entry:

1. Click on **Add Policy Entry** to create an entry for the CAMIO server. The **Policy Entry** dialog (Figure 14) will appear.

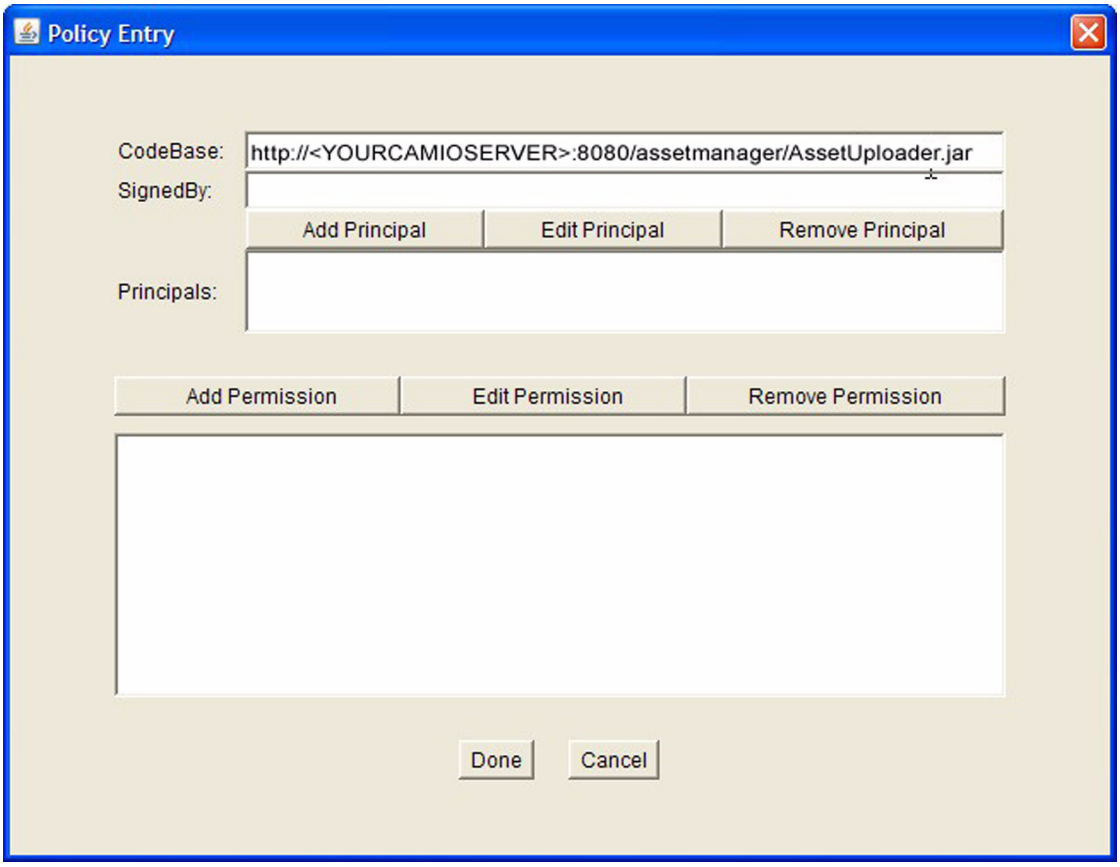


Figure 14 Policy Entry Dialog

2. In the **CodeBase** field, enter the following string:

   http://<YOURCAMIOSERVER>:8080/assetmanager/AssetUploader.jar

   where <YOURCAMIOSERVER> is the name of the CAMIO server to be used (note that other than the name of the CAMIO server, the path is case-sensitive).

Setting Permissions:

1. Click on **Add Permission**. The **Permissions** dialog will appear (Figure 15). The **Permissions** dialog has three fields: **Permission**, **Target Name**, and **Actions** that are set using corresponding dropdown lists. A fourth field, **Signed By,** requires no entry.

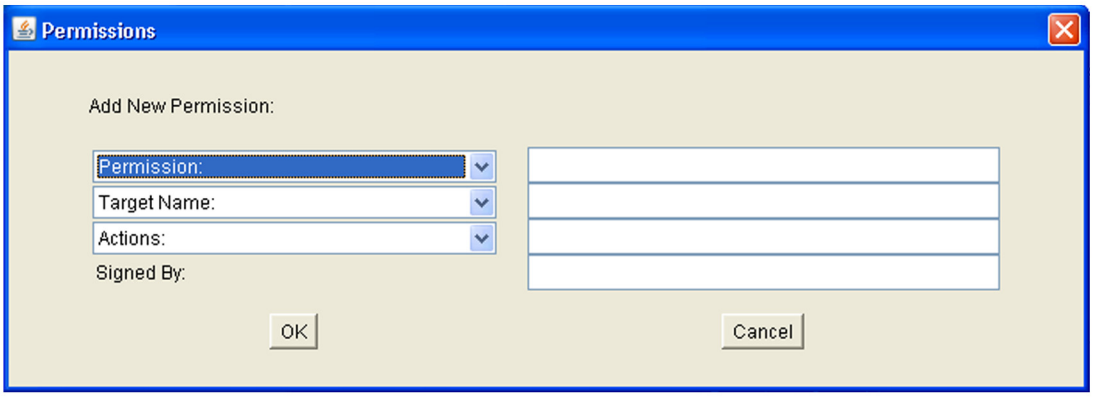


Figure 15 Permissions Dialog

2. Set the three fields as follows (Figure 16):

   a. In the **Permissions** field select **FilePermission** from the dropdown list. This will post **java.io.FilePermission** in the text box to the right of the **Permission** field.

   b. In the **Target Name** field, select **<<ALL FILES>>** from the dropdown list. This will post **<<ALL FILES>>** in the text box to the right of the **Target Name** field.

   c. In the **Actions** field, select **read** from the dropdown list. This will post read in the text box to the right of the **Actions** field.

   d. Press **OK** to close the **Permissions** dialog and return to the **Policy Entry** dialog.

   e. Click **Done** to return to the **Policy Tool**.

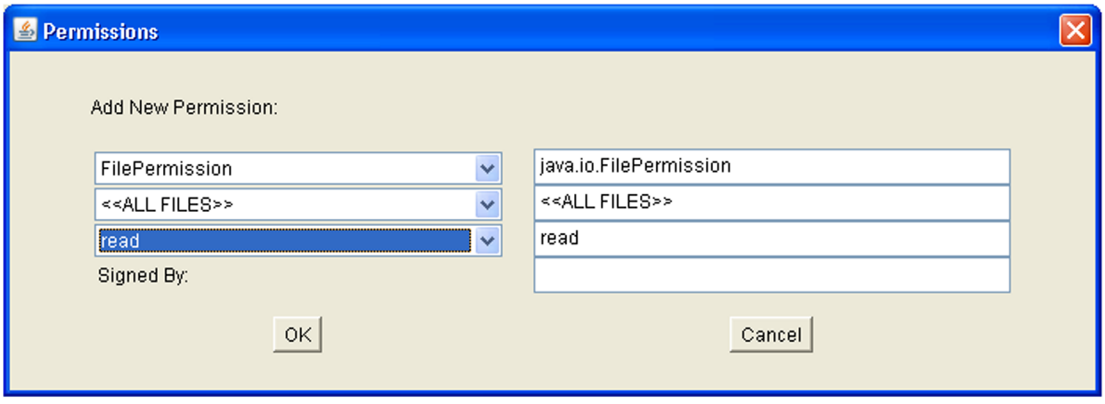


Figure 16 Setting Permissions

Saving the Policy Entry:

1. In the Policy Tool, select **FILE>SAVE AS** or **FILE>SAVE** (if there is an existing Java Policy that is being added) from the main menu.
2. In the **File Save As** dialog, navigate to **c:\Documents and Settings\<USER>** (replace <User> with the user name on the computer currently in use). The file should be saved as:

   .java.policy

   Note the period before the word java in the above file name.

3. Click on **Save** to save the file with the proper name; close the **Save As** dialog box.
4. The JAVA Status dialog (Figure 17) will appear to indicate the success of the file save operation. Click on **OK** to accept the modifications to the Java Policy tool.

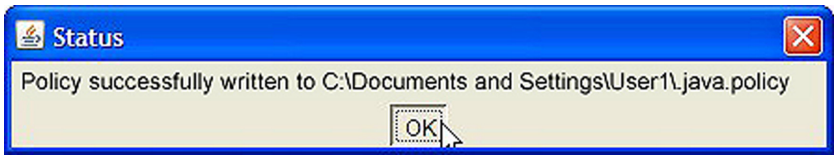


Figure 17 Java Status

5. Click on **FILE>EXIT** to close the Java Policy tool.
6. Close any open browser windows and re-launch the browser. Log into the new Asset Manager (http://<yourcamioserver>:8080/assetmanager). You should now be able to drag assets into the drop zone and begin the process of publishing them to CAMIO.

INSTALLING and CONFIGURING LUCI

INSTALLATION

LOCAL INSTALLATION

1. Log on to the Newsroom client or art department workstation with an administrative account.

2. Depending on the security levels of your internet browser, you may need to add the CAMIO server as a trusted site in the Internet settings of your browser. To do this:

    a. From the Internet Browser menu, select **Tools>Internet Options**. The **Internet Options** dialog box opens.

    b. Select the Security tab. Click on **Trusted sites**.

    c. Click on **Sites**. The **Trusted Sites** dialog box is displayed.

    d. Enter the following URL: **http://<CAMIO_SERVER>**, where <CAMIO_SERVER> is the network name of the CAMIO server.

    e. Uncheck the **Require sever verification (https) for all sites in this zone** check box.

    f. Click **Add**.

    g. Close the **Trusted sites** and **Internet Options** dialogs.

    h. Restart your Internet Browser.

3. Go to Installer Web page **http://<*CAMIO_SERVER*>:8080/install.tsp** (where ***CAMIO_SERVER*** is the network name of the CAMIO Server).

4. Click on **LUCI** (Chymox ActiveX).

5. Click on **RUN** on the next two dialog boxes, to start **Install Shield Wizard**.

6. Select **Remove** from the **Modify, Repair, Remove** dialog box, to remove the old version of LUCI.

7. Select ***No, do not restart computer***, when prompted.

8. Repeat installation steps 2 - 4.

9. Enter your CAMIO Server hostname (same as <CAMIO_SERVER>, above) when prompted, and click on **Install**.

CONFIGURING LUCI

Configuring LUCI comprises the following:

Using the CAMIO Admin Tool **User Manager** to:

- Create a User and set which tabs and asset details are visible in LUCI. See “CAMIO SCRIPT MANAGEMENT” on page 80, and follow the directions provided there.

Using the CAMIO Admin Tool **MOS Manager** to:

- Specify how details of the assets are displayed in LUCI. See “CAMIO MOS MANAGEMENT” on page 46 and follow the directions provided there.

SETTING LUCI PREFERENCES

Refer to *Setting LUCI Preferences* in the **CAMIO Producer’s Manual** (Publication No. 2A02236, Rev A).

CHAPTER 5 INSTALLING and CONFIGURING PLAYBACK DEVICE SOFTWARE

INSTALLING LYRIC

Refer to “INSTALLING LYRIC and ASSOCIATED TASKS” on page 10. Follow the directions provided there for installing Lyric.

GPI OVERVIEW

A GPI, or General Purpose Interface, provides Lyric with the ability to transmit and receive triggers for internal and external events.

A GPI can have a wide variety of uses, among them:

- Triggering a Playlist event
- Triggering a Squeezeback Effect
- Turning on and off a tally light
- Releasing a Pause
- Stopping/starting a Clock or Timer

A Global GPI can also be set to allow an incoming GPI pulse to read any Lyric file using the extension *.lyr. Message types saved with this extension include conventional Lyric files, as well as specialized Lyric messages such as SD Mixer messages, CMix messages and Macro messages, etc.

Important

When a GPI assigned to a specific event, such as to trigger a Playlist step or trigger a Squeezeback Effect, make sure that the same GPI is not also assigned as a Global GPI, as there may be a conflict when the GPI or Global GPI is triggered. Refer to Global GPIs for additional information.

GPI CONFIGURATION—LYRIC-BASED SD/HD

OVERVIEW

Lyric can control or be controlled by external devices such as tape machines, digital disk recorders (DDRs), and switchers. This is accomplished by using GPIs (General Purpose Interface triggers) or by the BVW Serial Digital Protocol via the RS-422 Serial Digital Interface. Such control inputs to Lyric-based systems from external sources can start and stop Clocks and Timers, execute an individual step within a Lyric Playlist, or release a programmed pause. In addition, GPI control outputs from Lyric-based systems can be used to trigger external devices such as keyers and tally lights.

Important

To enable GPI and/or RS-422 capability, Chyron's optional RS-422 Serial I/O & GPI/O Board must be installed in the Lyric-based SD/HD system. Call Chyron Customer Service for information about this product. Refer to RS-422 Serial I/O & GPI/O Board for details on installation and setup. If this board is not present in the system, the GPI and Device tabs are grayed out.

Setup

To access GPI setup:

1. From the Lyric **Config** menu, select **Hardware**. The **Hardware Configuration** dialog is displayed (Figure 18).

2. Click the **Setup GPI** tab.

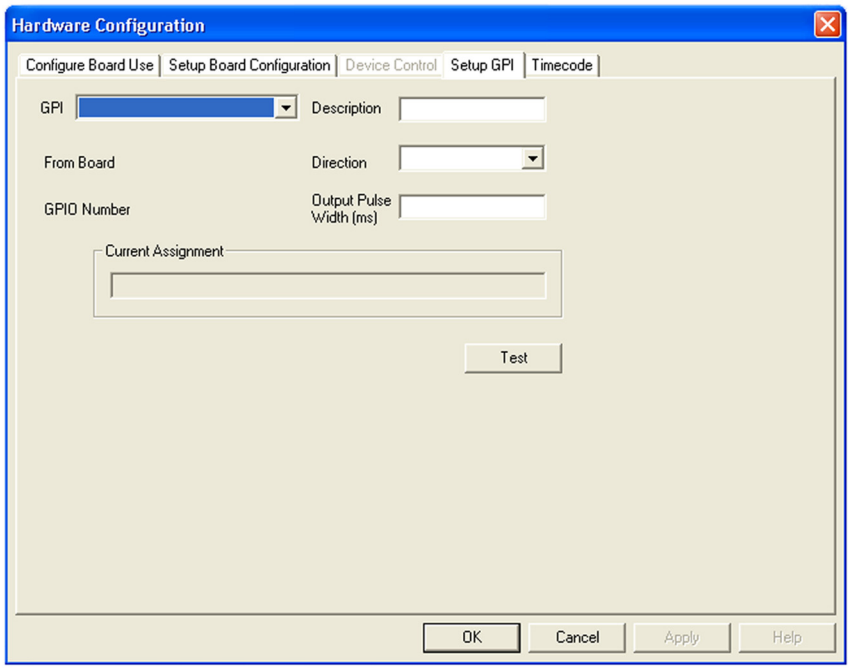


Figure 18 Hardware Configuration Dialog—GPI Setup

The parameters in the table below should be set to enable GPI capability.

Item	Description
GPI list box	The GPI list box designates which GPI is assigned to a specific event. The number of GPIs available depends on the number of RS-422 Serial I/O & GPI/O boards installed in the system. In the GPI dropdown list box, default GPIs 1-8 for the first installed RS-422 Serial I/O & GPI/O Board; 9-16 for the second board; 17-24 for the third board, and 25-32 for the fourth board. Click on the up or down arrow spin control box to set. If multiple RS-422 Serial I/O & GPI/O boards are installed in the system, then the DIP switches must be correctly set in order to ensure availability of all GPIs.
Description field	A descriptive name can be assigned to the GPI in the **Description** field for easier identification.
Direction field	The **Direction** setting determines whether the designated port is to receive the incoming pulse (INPUT) or send an outgoing pulse (OUTPUT).
From Board display	**From Board** indicates which Lyric-based LE/LEX/PCI/PCI+ board originates or receives the GPI pulse.
GPIO Number display	GPIO Number displays the pin combination to be used on the Lyric-based LE/LEX/PCI/PCI+ board's GPI/O "D" connector.
Pulse Width	Pulse Width defines the minimum duration of the GPI pulse in milliseconds. This should be set to ignore a short accidental contact with a physical GPI button or a slight signal anomaly that could unintentionally trigger the GPI.
Current Assignment Display	Indicates what operation the GPI is currently assigned to. For example, if GPI 5 triggers squeezeback effect #2, it will be indicated in this box. Note that 'temporary' assignments, such as GPI pauses in the current message, are not indicated.

Important

When a GPI assigned to a specific event, such as to trigger a Playlist step or trigger a Squeezeback Effect, make sure that the same GPI is not also assigned as a Global GPI, as there may be a conflict when the GPI or Global GPI is triggered.

SETUP GPI–VPBS ONLY–Lyric-Based LE/LEX/PCI/PCI+

Each Lyric-based LE/LEX/PCI/PCI+ VPB includes a facility for 16 GPI (General Purpose Interface) connections per video channel.

Important

The Setup GPI facility in the Lyric-based LE/LEX/PCI/PCI+ is not available to PCI-Squeezeback boards; however, GPIs set up from other boards can be used to trigger Squeezeback effects. Additionally, the SQZ Kwik Tool must be enabled in order that the GPIs trigger Squeezeback effects.

To perform GPI setup:

1. From the Lyric **Config** menu, select **Hardware**. The **Hardware Configuration** dialog is displayed (Figure 19).

2. Click the **Setup GPI** tab.

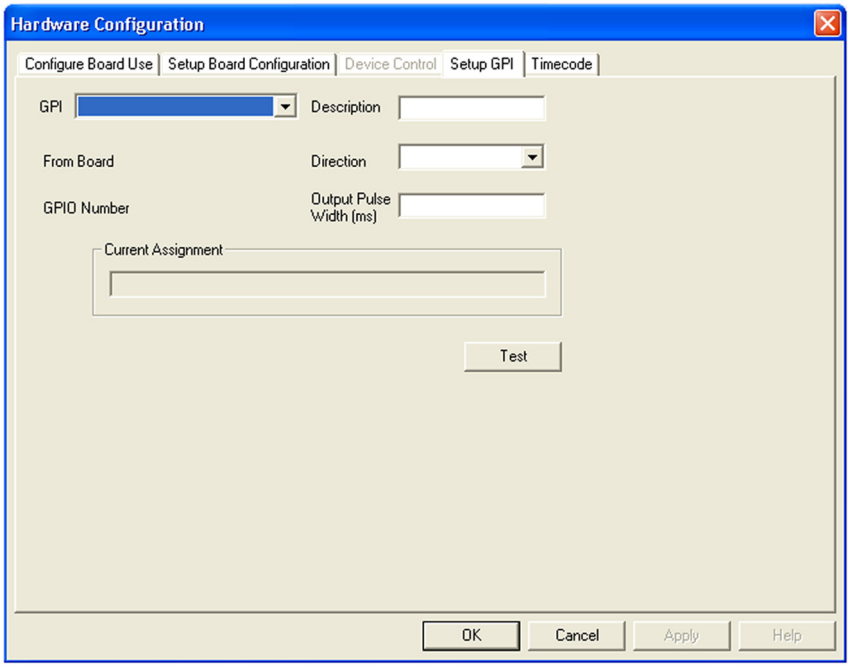


Figure 19 Hardware Configuration Dialog

The following parameters should be set to enable GPI capability:

Parameter	Description
GPI list box	The GPI list box designates which GPI is assigned to a specific event. The number of GPIs available depends on the number of RS-422 Serial I/O & GPI/O boards installed in the system. In the GPI dropdown list box, default GPIs 1-8 for the first installed RS-422 Serial I/O & GPI/O Board; 9-16 for the second board; 17-24 for the third board, and 25-32 for the fourth board. Click on the up or down arrow spin control box to set. If multiple RS-422 Serial I/O & GPI/O boards are installed in the system, then the DIP switches must be correctly set in order to ensure availability of all GPIs.
Description field	A descriptive name can be assigned to the GPI in the **Description** field for easier identification.
Direction field	The **Direction** setting determines whether the designated port is to receive the incoming pulse (INPUT) or send an outgoing pulse (OUTPUT).
From Board display	**From Board** indicates which Lyric-based LE/LEX/PCI/PCI+ board originates or receives the GPI pulse.
GPIO Number display	GPIO Number displays the pin combination to be used on the Lyric-based LE/LEX/PCI/PCI+ board's GPI/O "D" connector.
Output Pulse Width	Output Pulse Width defines the minimum duration of the GPI pulse in milliseconds. This should be set to ignore a short accidental contact with a physical GPI button or a slight signal anomaly that could unintentionally trigger the GPI.
Current Assignment display	Indicates what operation the GPI is currently assigned to. For example, if GPI 5 triggers squeezeback effect #2, it will be indicated in this box. Note that 'temporary' assignments, such as GPI pauses in the current message, are not indicated.

3. After setting GPI parameters, click **OK**,

4. Close Lyric, then relaunch Lyric in order to apply GPI settings.

Important

When a GPI assigned to a specific event, such as to trigger a Playlist step or trigger a Squeezeback Effect, make sure that the same GPI is not also assigned as a Global GPI, as there may be a conflict when the GPI or Global GPI is triggered.

GLOBAL GPIs

This facility allows an incoming GPI pulse to read any Lyric file using the extension ***.lyr**. Message types saved with this extension include conventional Lyric files, as well as specialized Lyric messages such as SD Mixer messages, CMix messages and Macro messages.

To assign Global GPIs:

1. From Lyric's **Config** menu, select **Hardware**.

2. Click on the **GPI** tab (Lyric-based SD/HD systems) or the **Setup GPI** tab (Lyric-based LE/LEX/PCI/PCI+ systems).

3. Set up and allocate one of the available GPIs.

4. If you wish, enter a **Description** in the **Description** field.

Important

Make sure that the GPI that is assigned as a Global GPI is not already assigned for use in another capacity (for example, in a Playlist or to trigger a Squeezeback effect), as there may be a conflict when the GPI or Global GPI is triggered.

5. Click **OK**.

6. Return to the **Config** menu and select **Global GPIs** to open the **Configure Global GPIs** dialog (Figure 20).

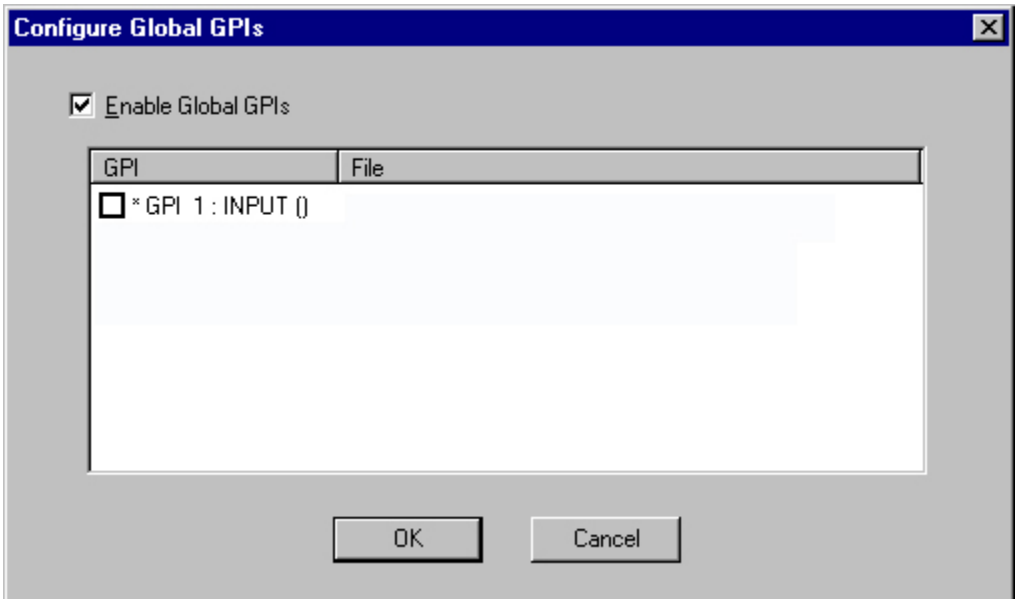


Figure 20 Configure Global GPIs Dialog

7. Double-click the entry for the GPI that you allocated in step 2. The **Select File To Assign To GPI 1** dialog opens (Figure 21).

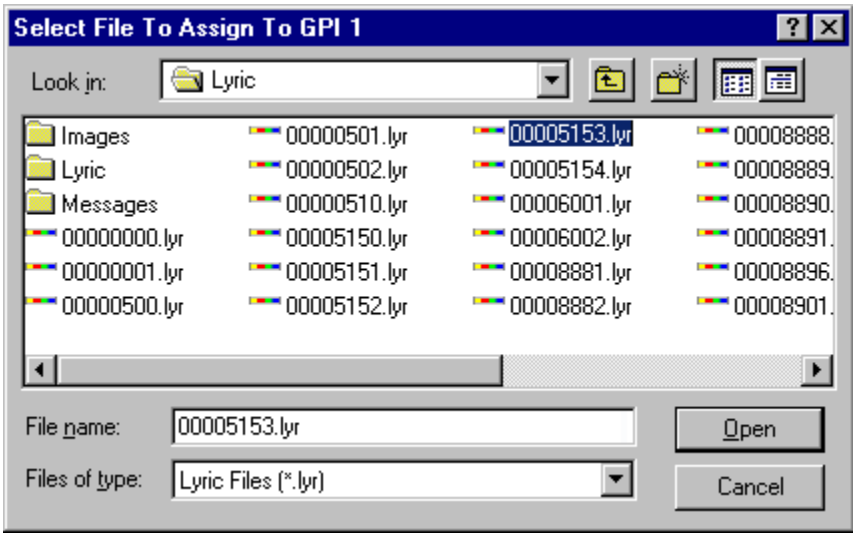


Figure 21 Select File To Assign To GPI 1

8. Select the file that is to be opened by the incoming GPI pulse.The **Configure Global GPIs** dialog reappears as shown in Figure 22. Note that the GPI assignment is labeled with the **Description** entered in step 2. This user-defined description on the left is not to be confused with the actual file path on the right-hand side of the entry.

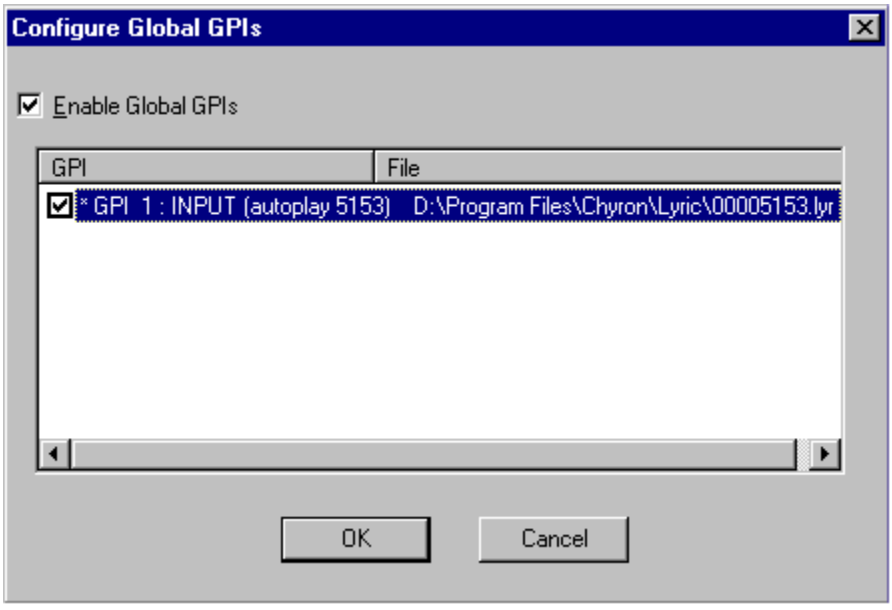


Figure 22 GPI 1 Set as Global GPI

9. Click **OK**. The selected ***.lyr** file will now open when the GPI is triggered.

10. If the Lyric file read by the GPI contains an animation, it is necessary to set playback parameters.

11. From the Config menu, select **Preferences**, then the Animation Settings tab.

12. To play the animation immediately when read, select (check) **AutoPlay On Read** and deselect (uncheck) **Prompt to Play** on Lyric-based systems. The animation plays when read, without Lyric generating a prompt confirming playback. To manually trigger playback, deselect (uncheck) **AutoPlay On Read**.

Making the above settings effect all messages played out via Lyric, including those messages from newsroom rundown Playlists.

13. Click **OK** to close Preferences.

14. Exit Lyric, then relaunch Lyric to apply the Global GPI settings.

After parameters are set, Lyric must be closed and relaunched in order to apply GPI settings.

SETTING UP and USING LYRIC PLAYBACK CONTROL under MOS

GETTING STARTED

The playback machine requires a license for the Lyric XML plug-in. This license is available as Chyron part number 5A11394. One playback license is included with each CAMIO server.

INSTALLING PLAYBACK CONTROLLER SOFTWARE INTO LYRIC

The XML plug-in can be downloaded from the CAMIO server. Use the following link:

http://<CAMIO_SERVER>:8080/install.tsp

Click on **Lyric MOS XML plugin** and follow directions. Make sure that the plug-in is installed into the plugin directory of the Lyric software that is used for playback. A sample path would be: **C:\Program Files\Chyron\Lyric 6.1\Plugins**.

DISABLING the MODAL SUPPRESSOR

When the XML plugin is installed, the Modal Suppressor feature is enabled by default. The Modal Suppressor feature causes all Lyric modal dialog boxes to be suppressed. In this manner, Lyric can run unattended without hanging up on a status message that requires an operator to act upon. It is desirable to leave this feature enabled, if the system is operating under automation or GPI control. However, if there is an operator monitoring the system, the Modal Suppressor feature may also cause an operator to miss important Lyric status information. In this case, it is desirable to disable the Modal Suppressor feature by selecting **Tools>Modal Suppressor>Disable Modal Suppressor?>Yes**.

PLAYLIST

The Playlist feature allows multiple Lyric messages to be compiled into an automated list and played out sequentially using preset transition effects. For example, a Playlist could be used to automatically play a dissolving sequence of graphics displaying sports statistics.

A Playlist can consist of up to 500 preset events that are numbered from 0 - 499. Each event specifies the playout parameters of a Lyric message, including file name and transition effect. When a message completes playout, the Playlist proceeds to the next specified message. Simultaneous In and Out transition effects can be executed on Lyric-based systems.

When used in conjunction with the powerful CAMIO newsroom application, a Playlist can be remotely built and edited. Messages can be created on remote PCs and sent to the Lyric-based system where they are added to a Playlist for execution. When a Lyric Playlist is used in conjunction with a CAMIO (MOS) driven running order, updates to the Lyric Playlist do not occur while a graphic on either output of Lyric is in a paused state.

The next update to the Playlist will happen when the next update to the running order happens and Lyric is not is a paused state.

OPENING a MOS PLAYLIST

1. Start Lyric.

2. Select **Running Orders...** from the **Tools** menu. The **Playlists** dialog is displayed (Figure 23).

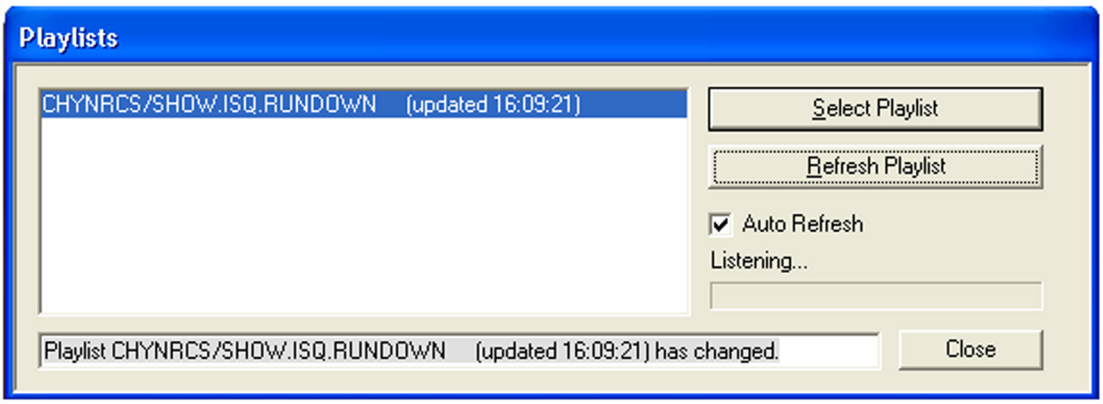


Figure 23 Playlists Dialog

3. Select a MOS Running Order from the displayed list by clicking on it. A MOS Playlist (Figure 24) will be displayed.

If there is only one running order (as shown in Figure 23), it should automatically cause the MOS Playlist to be displayed.

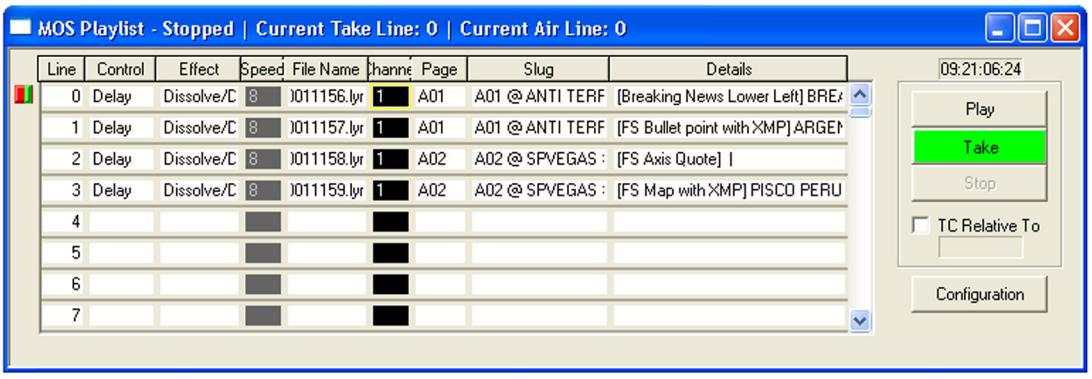


Figure 24 MOS Playlist

PLAYLIST LAYOUT

The Playlist is composed of a list of messages to be played out and the parameters that control the playout of each of them.

To the right of the list are execution controls, as well as Timecode setup. Playlists can be composed on a PC for later use on a Lyric-based system. The Playlist can be resized by dragging any corner or edge. An individual column can also be resized by dragging the column separator in the heading.

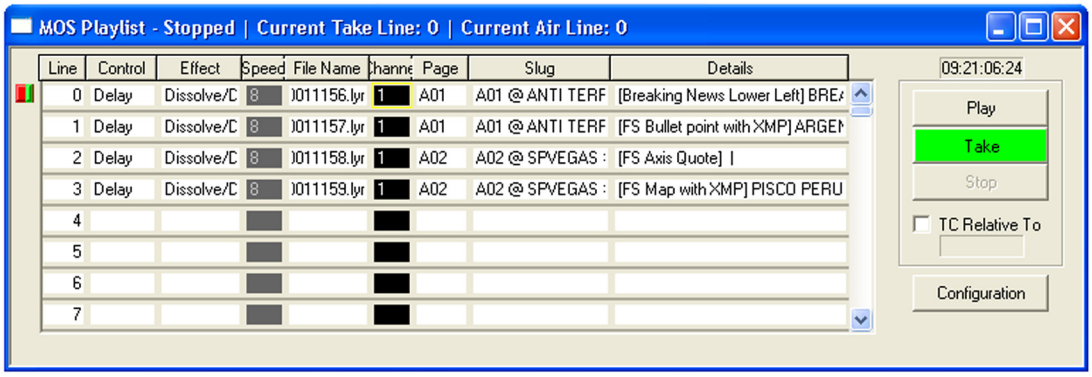


Figure 25 Playlist

NAVIGATING the PLAYLIST

Use the following methods to navigate through the Playlist:

- Press the ↑↓←→ keys on your keyboard to navigate up, down, left, and right.

  When using the ←→ keys to navigate, and the cursor reaches a field that accepts text entry, the cursor steps through the text before proceeding to the next field.

- When the cursor is in a **Line**, **Control**, **Effect**, or **Channel** field, press **Page Up** or **Page Down** on your keyboard to navigate up or down in five-line increments. If the cursor is in the **Line** column, the entire line is highlighted.
- In the Scroll Bar, click above or below the scroll box to page backwards or forwards, respectively, through the Playlist.
- In the Scroll Bar, click the up or down arrow to scroll the Playlist one line up or one line down, respectively.
- Press **End** on your keyboard to move the cursor to the next instance of End or to the final line of the Playlist that contains an entry.

The Playlist scrolls based on a fixed number of lines or a percentage. This value is set in the **Playlist Configuration** dialog box, which is accessible from the Playlist dialog.

CURRENT MESSAGE ON OUTPUT Indicator

The **Current Message On Output** indicator (Figure 26) in the Playlist is indicated by the green square located at the left side of the Playlist.It identifies the currently displayed message in the Playlist During playout, this indicator proceeds line-by-line through the Playlist.

During Playlist execution, the Playlist automatically scrolls to display upcoming events.

CURRENT TAKE LINE Indicator

The **Current Take Line** indicator (Figure 26) in the Playlist is indicated by the red square located at the left side of the Playlist. It identifies the Playlist line that will be executed next. When a step is executed, the **Current Message On Output** Indicator moves to the same line as the **Current Take Line** indicator (the two indicators are briefly positioned on the same line). The **Current Take Line** indicator then moves to the following line.

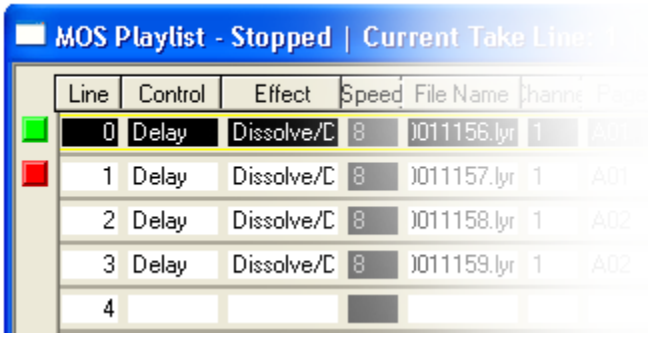


Figure 26 CURRENT MESSAGE ON OUPTPUT and CURRENT TAKE LINE Indicators

In the event that non-sequential execution of the Playlist is necessary, the **Current Take Line** indicator can be moved to a different step using one of the following methods:

- Click to the left of a line to move the **Current Take Line** indicator to that line.
- Press **Ctrl +** (up arrow) or **Ctrl +** (down arrow) to move the **Current Take Line** indicator up or down in one-line increments.
- Press **Ctrl + Page Up** or **Ctrl + Page Down** to move the **Current Take Line** indicator up or down in five-line increments.
- Press **Ctrl + Home** to move the **Current Take Line** indicator to the first line of the Playlist.
- Press **Ctrl + End** to move the **Current Take Line** indicator to the next instance of End or to the final line of the Playlist that contains an entry.
- Trigger a GPI to move the **Current Take Line** indicator up or down in one-line increments. The GPI is set up in the **Playlist Configuration** dialog box. A GPI can also be used to execute a Take.

Line

The number in the **Line** column identifies the line number for each event or step on the Playlist. The terms *line* and *step* are used interchangeably in reference to Playlists in this documentation. A Playlist can contain up to 500 steps, numbered from 0 - 499.

Playlist Autopositioning

Playlist Autopositioning is an innovative feature that is unique to Chyron's MOS solution. If the MOS Playlist is changed by the NRCS, even after playback has started, the Playlist Autopositioning feature will seek to keep the Green Air and Red (Preview) grommets pointing to the correct objects in the Playlist according to the following simple rules.

These rules were developed to account for common last minute newsroom changes. They particularly look for changes made on the story level—entire stories being added or dropped, which is common in live news production.

- Rule One: If objects are added or deleted either before or after the message cued into the preview canvas, the preview grommet will move up or down to stay pointing at the previously cued message. See Rule 4, CUE BACK option, for a description of an exception to this rule. The air grommet will always point to the on-air message.
- Rule Two: If the message that is cued into the canvas preview is changed for any reason (typo corrected by the NRCS or position change, for example), the **Take** button will turn red, requiring a Take to re-cue the corrected message.
- Rule Three: If the entire story of the message cued into the canvas preview is floated/deleted by the NRCS, the preview grommet will re-position to the start of the next story in the Playlist.
- Rule Four: (CUE BACK option, must be selected in the Settings window). If a story is inserted directly in front of the story currently on air, the Playlist will assume that this is a "breaking news story", and it will place the preview grommet back to the top of that new story.

PLAYLIST CONFIGURATION SETTINGS

The configuration settings, as implemented by **Select Playlist**, **Refresh Playlist**, and **Auto Refresh,** control how the Playlist operates. See Figure 27.

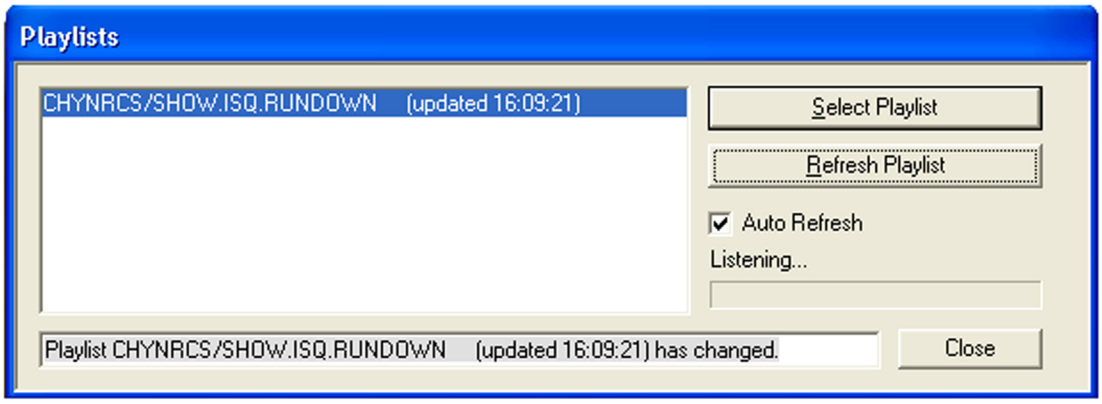


Figure 27 Playlist Configuration Settings

Select Playlist If more than one Running order is published by the NRCS at a time, use the mouse to select the desired Playlist from the available list and click on **SELECT Playlist** to load it into the Lyric Playlist. If only one playlist is available, it will load automatically.

Refresh Playlist The **Refresh Playlist** button requests a Running Order Update from the CAMIO server. This can take between 10-15 seconds to execute under some circumstances.

Auto Refresh (normally checked) Checking this box keeps the Lyric Playlist connected to the MOS newsroom system. It receives any changes on the fly. Uncheck this if you want to disconnect the Playlist window from the MOS newsroom system.

Listening (display only) This display shows the status of the connection between Lyric and the MOS Server. It is a useful debugging tool if you suspect that communication has been lost with the server.

OPERATING the PLAYLIST

The playback controls, **Play**, **Take**, and **Stop** are located in the upper right corner of the **MOS Playlist** dialog (Figure 28).

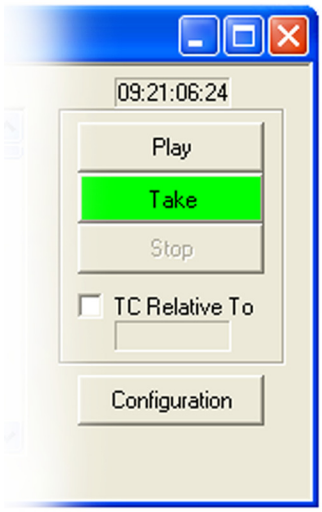


Figure 28 Playback Controls

TAKE

The **Take** button is the one usually used in MOS applications. The **TAKE** button manually cues and plays each Playlist item in sequence. Note the color of the **TAKE** button, it changes to green when a message is cued and ready to air. Also note the red and green "grommets" along the left edge of the Playlist (Figure 29). They indicate which message is on air (green) and which one is cued in the preview canvas (red).

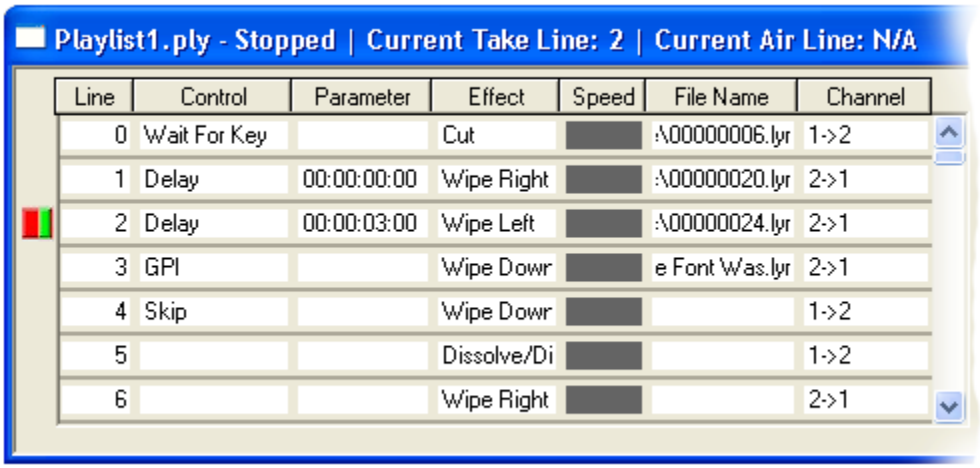


Figure 29 MOS Playlist

When the **Take** button is red, clicking it reads the next message in the Playlist to the preview canvas, but does not affect the air channel. When the **Take** button is green, clicking it brings the message in the preview canvas to air. Following this, it reads the next message to the preview canvas.

The following sequence empirically describes operation of the Playlist.

- Preview and air grommet on Line 0, **Take** is red
- Starting position, no message on air and none in the canvas
- Click **Take**
- Preview and air grommet on Line 0, **Take** is green
- Message 0 get read to the preview canvas
- **Take** button turns green signaling that the message in the preview canvas is ready to take to air
- Click **Take**
- Preview grommet on Line 1
- Air grommet on Line 0
- Message 0 plays to air
- Message 1 gets read to the preview canvas
- **Take** button remains red until message 1 gets read to the preview canvas and then it turns green signaling that Message 1 is ready to go to air
- Click **Take**
- Preview grommet on Line 2
- air grommet on Line 1,
- Message 1 plays to air
- Message 2 gets read to the preview canvas
- **Take** button remains red until Message 2 gets read to the preview canvas and then it turns green signaling that Message 2 is ready to go to air.

This cycle continues for the duration of the Playlist.

If for any reason the Playlist is modified so that a different message should go to air other than the message in the preview canvas, the **TAKE** button will turn red, forcing a re-read of the next message in the Playlist.

TAKE operation can be controlled by mouse click on the Playlist's **TAKE** button, a keyboard shortcut key (normally F5), or by a GPI trigger. These options are set up in the **Playlist Configuration** dialog. Refer to Lyric on-line Help.

The **Play** button automatically cycles through all the items in the Playlist using the CONTROL parameter to trigger each message. This control is not usually used in MOS news production applications.

NOTES:

CHAPTER 6 CAMIO ADMIN TOOL UTILITY

GETTING STARTED

OPENING the CAMIO ADMIN TOOL UTILITY

To open the CAMIO Admin Tool Utility, do one of the following:

- From any machine connected to the CAMIO Server over the network, open an Internet browser, and then enter ***http://<CAMIO_SERVER>:8080/CAMIO/Diagnostics/***, where **<CAMIO_SERVER>** is the name of the CAMIO Server.

or

- From the CAMIO Server's start menu, select **Programs> Chyron>Admin Tools>CAMIO administrator**.

The CAMIO Admin Tool Sign In window (Figure 30) is displayed.

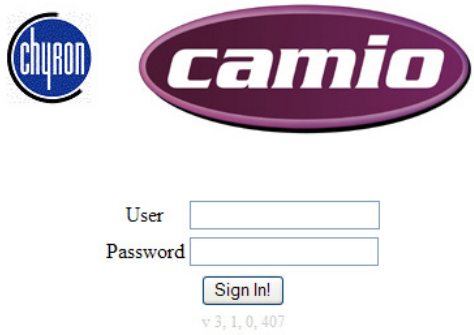


Figure 30 CAMIO Admin Tool—Sign In

1. Upon initial entry, the user is prompted to log in. Depending on the security levels of your internet browser, you may need to add the CAMIO server as a trusted site in the Internet settings of your browser. To do this:

   a. From the Internet Browser menu, select **Tools>Internet Options**. The **Internet Options** dialog box opens.

   b. Select the **Security** tab. Click on **Trusted sites**.

   c. Click on **Sites**. The **Trusted Sites** dialog box is displayed.

   d. Enter the following URL: **http://<CAMIO_SERVER>**.

   e. Uncheck the **Require server verification (https) for all sites in this zone** check box.

f. Click **Add**.

g. Close the **Trusted sites** and **Internet Options** dialogs.

2. Enter **admin** (initial default user name) in the **User** field.

3. Enter **admin** (initial default password) in the **Password** field.

4. Click on **Sign In!**. The **CAMIO Admin Tool Utility** screen (Figure 31) is displayed.

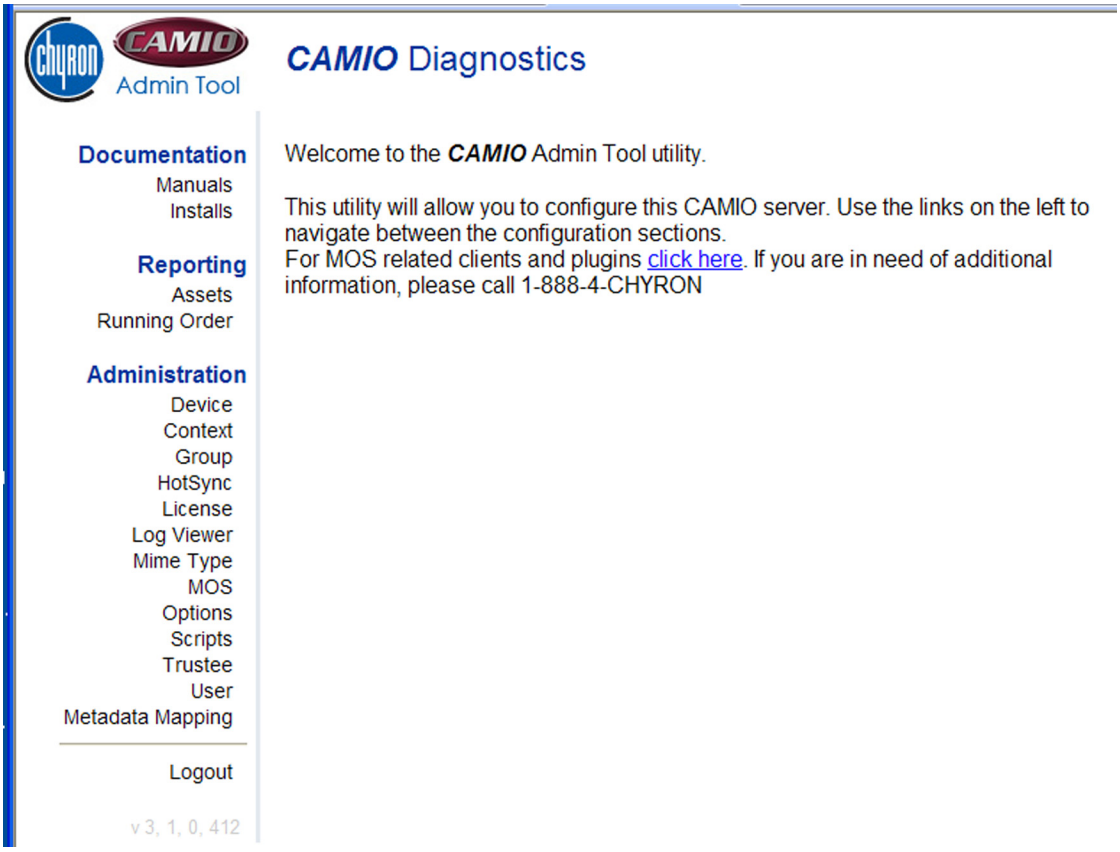


Figure 31 CAMIO Admin Tool Utility

CAMIO MOS MANAGEMENT

GETTING STARTED

Using the CAMIO MOS manager, NCS servers, backup NCS servers, Playlist Defaults, and other settings may be configured.

To access the CAMIO MOS Manager:

1. Start the CAMIO Admin Tool. See “OPENING the CAMIO ADMIN TOOL UTILITY” on page 44.

2. Select **MOS** (Figure 32)from the left navigation panel.

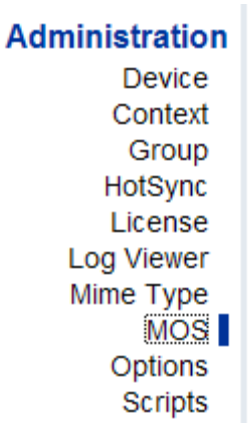


Figure 32 Selecting MOS

3. The MOS Management page (Figure 33) opens in the simple view. In most cases, the simple view is sufficient for configuring MOS. In some instances, however, it may be necessary to access the Advanced View for more comprehensive configurations. See “ADVANCED VIEW” on page 48.

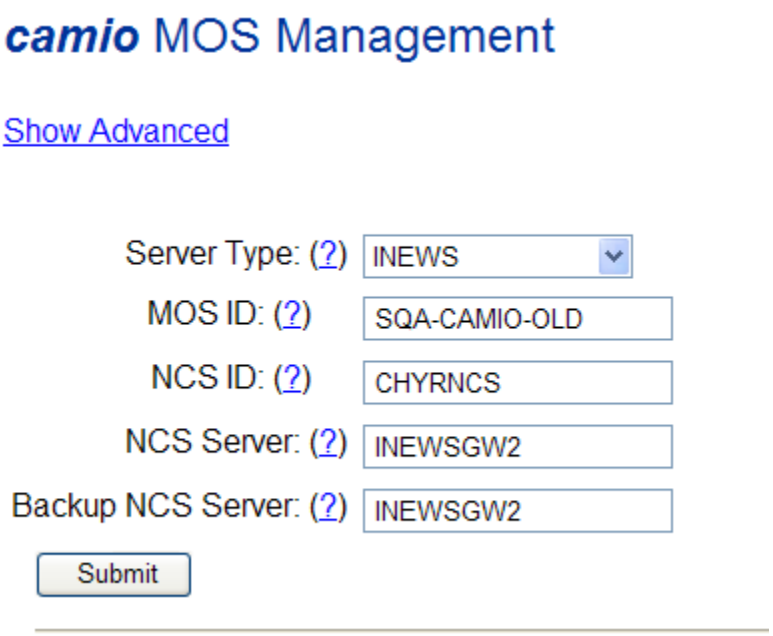


Figure 33 MOS Management Page

CONFIGURING the MOS MANAGER

To configure the MOS Manager:

1. Select the News Room Computer System (NRCS) Type (ENPS, iNews, Dalet, etc), from the **Server Type** drop-down list box.

2. Enter the CAMIO alias of the CAMIO Server in the **MOS ID** field. If this field is left blank, CAMIO Server assumes that the MOS ID (alias) is the same as the CAMIO Server name.

3. Enter the NCS ID of the ENPS NCS Server or the iNEWS Server. If this field is left blank, CAMIO Server assumes that the NCS ID is the same as the NCS Server name. This field should duplicate the entry in the NCS Server field for INews. For ENPS this field should indicate the name assigned to the CAMIO Server in the MOS Configuration of ENPS.

4. Enter the Hostname or IP Address of the ENPS NCS Server or the iNEWS Gateway in the **NCS Server** field.

5. Enter the Hostname or IP Address of the backup NCS Server in the **Backup NCS Server** field.

6. Click the **Submit** button, to save settings.

ADVANCED VIEW

The Advanced View provides additional setup options. To access the Advance View, click (Show Advanced). The following menu options (Figure 34) are provided: **MoreAdvanced**, **LUCI Client Configuration**, **Playlist Defaults**, **Asset Details**, **Auxiliary**, and **Playback Host**. Each of these menu items are described below.

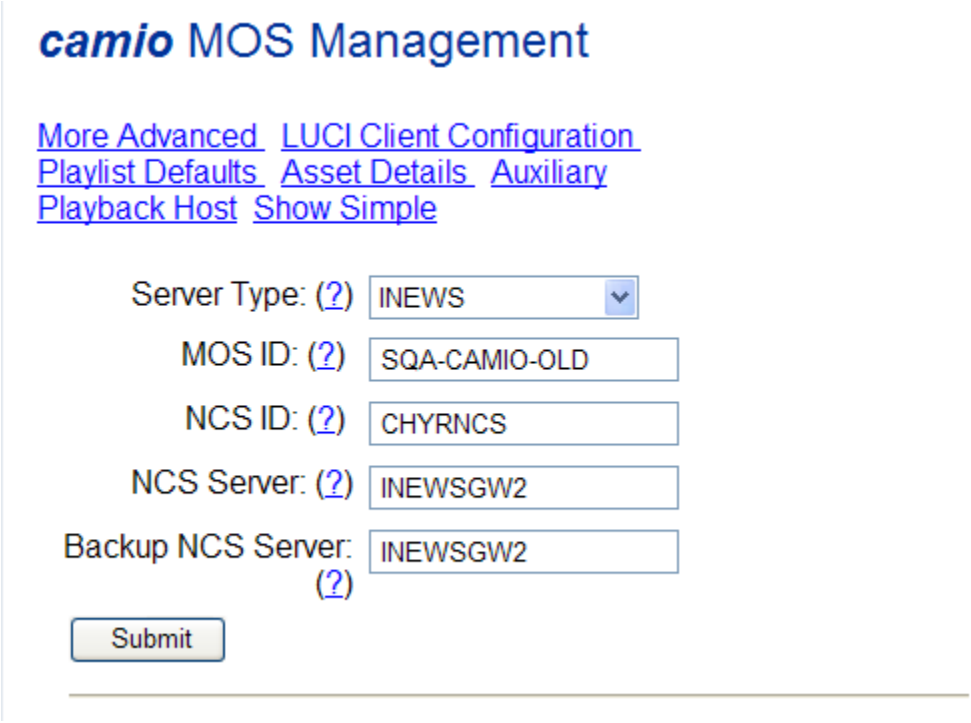


Figure 34 CAMIO MOS Management—Advanced View Menu Items

MOREADVANCED

Selecting **MoreAdvanced** exposes the options shown in Figure 35.

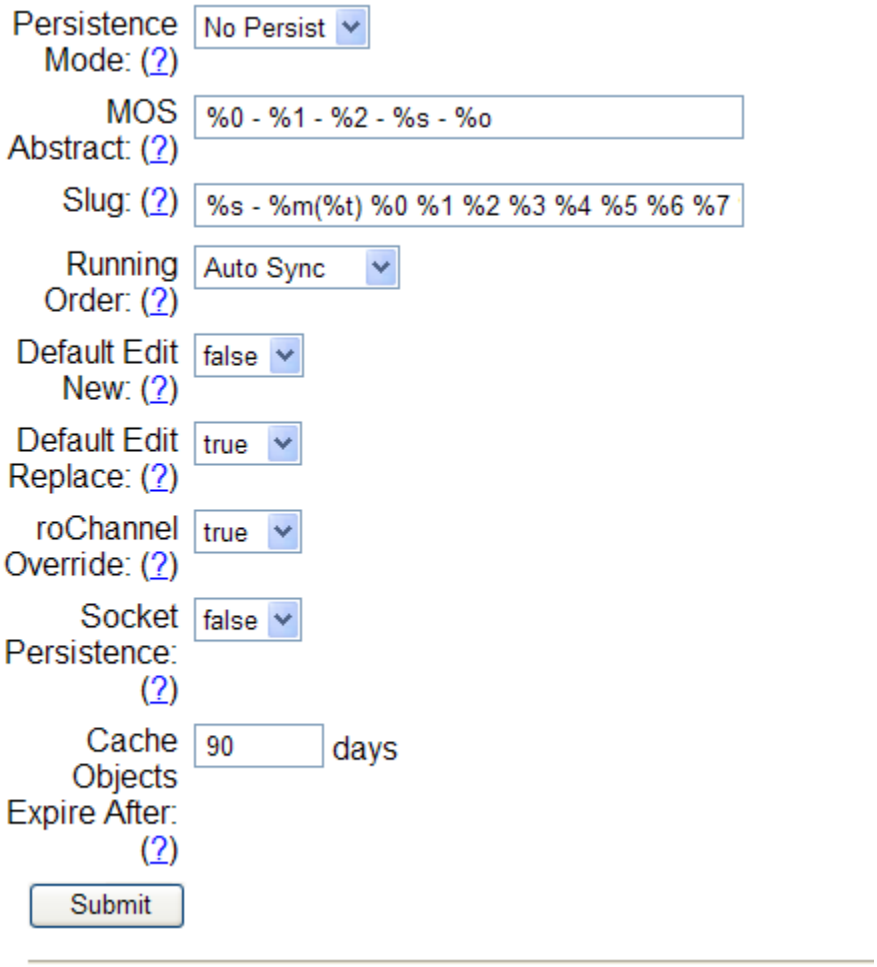


Figure 35 MoreAdvanced Menu Options

Refer to the table shown below, for a description of the MoreAdvanced options.

MORE ADVANCED MENU OPTIONS

Parameter/Setting/ Function	Description
Persistence Mode	Specifies if the **Running Order** should persist between CAMIO Server restarts. • If **Persist** is selected, the **Running Order** persists when the CAMIO Server is restarted. • If **No Persist** is selected, the **Running Order** does not persist when the CAMIO Server is restarted.
MOS Abstract	Specifies the format for the **MOS Abstract** as shown in a **Script**. See “ASSET FORMATTING” on page 57.
Slug	Specifies the format for the **Slug** as shown in the code that describes the **MOS Object**. See “ASSET FORMATTING” on page 57.
Running Order	Specifies whether or not CAMIO will try to synchronize itself with the configured **MOS Server**. • If **Auto Sync** is selected, CAMIO will automatically try to synchronize itself with the configured **MOS Server**. • If **Manual Sync** is selected, CAMIO will not automatically try to synchronize itself with the configured **MOS Server**.
Default Edit New	Sets the default when editing a previously created CAMIO Object to save the changes to a new page. The original file will not be overwritten with the modification.
Default Edit Replace	Sets the default when editing a previously created CAMIO Object to save the changes to the original message number, overwriting the original permanently.
roChannel Override	Specifies if roChannel overrides itemChannel in the **roCreate** or **roReplace** MOS message. Selecting **True** will cause roChannel to override itemChannel.
Socket Persistence	Specifies if the socket connection initiated by CAMIO with the NCS server is kept active. Selecting **True** maintains the socket connection.
Cache Objects Expire After:	Enter a value for the number of days before an item moves into "Secondary Cache" — the default value is 90 (DAYS).

LUCI CLIENT CONFIGURATION

Selecting **LUCI Client Configuration** exposes the options shown in Figure 36.

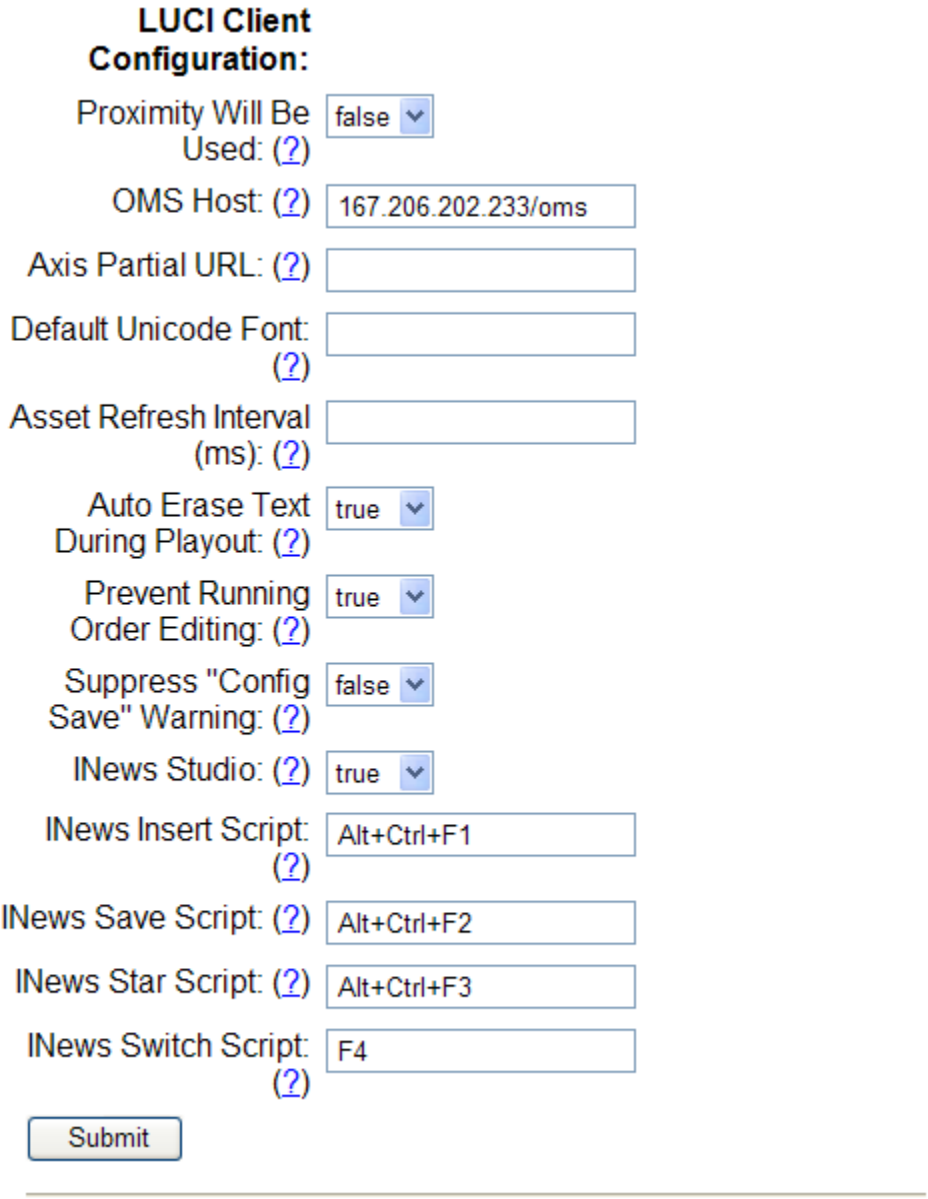


Figure 36 LUCI Client Configuration Menu Options

The menu options are described in the table below.

LUCI Client Configuration	
Proximity Will Be Used	Specifies if the Proximity ActiveX interface will be used with the LUCI ActiveX interface on each client machine. Requires the Proximity ActiveX interface to be installed on the client machine.
OMS Host	Specifies hostname of OMS (Order Management System) server. Proximity must be set to FALSE.
Axis Partial URL	Specifies partial Axis URL starting with http:// and ending only with the Login and Password arguments.
Default Unicode Font	Specifies the default Unicode font to be used by the client machines.
Asset refresh Interval (ms)	Specifies the time interval (in milliseconds) used by LUCI to poll for asset database changes.
Auto Erase Text During Playout	Specifies if blank text fields in LUCI result in blank text fields being played to air.
Prevent Running Order Editing	Specifies if LUCI should allow users to save changes made to objects when the **Running Orders** tab is active. With this set to false, the LUCI client will not offer a save button on the Running Orders page.
Suppress "Config Save" Warning	Specifies if LUCI should suppress the warning: **Can't save configuration. Administrator may have made recent changes**.
INews Studio	Default value is **True**.
INews Insert Script	Default value is **Alt + Cntrl + F1**.
INews Save Script	Default value is **Alt + Cntrl + F2**.
INews Star Script	Default value is **Alt + Cntrl + F3**.
INews Switch Script	Default value is **F4**.

PLAYLIST DEFAULTS

Selecting **Playlist Defaults** exposes the options shown in Figure 37.

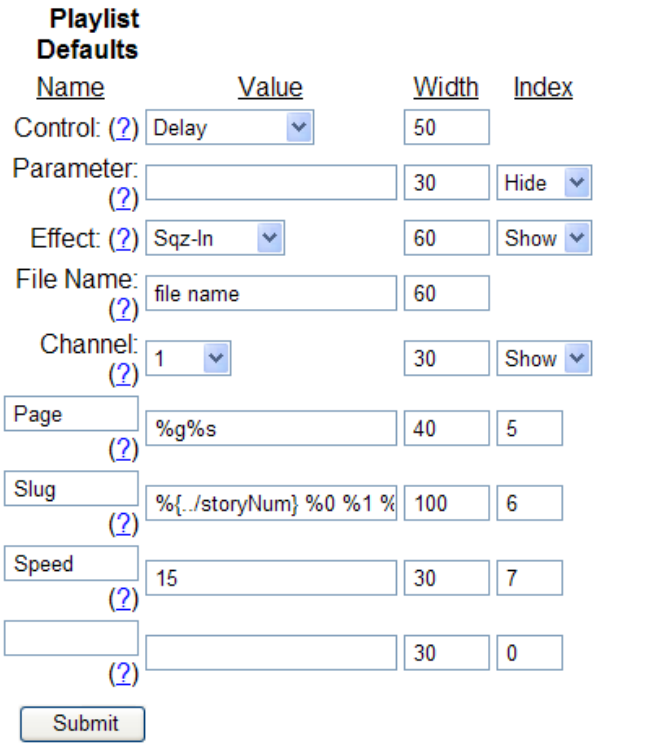


Figure 37 Playlist Defaults Menu Options

The Playlist Defaults, described in the Playlist Defaults table on page 54, determine how messages played to Air from the Playlist are to be executed. The Playlist Defaults also specify accompanying information about the messages that are displayed in the Playlist. The Width column specifies the width, in pixels, of the column displaying the specified information. The Index column specifies the position of the column within the Playlist, starting from the left. A value of 0 indicates that the column is hidden, but does not affect how the Default setting is applied. For example, the Parameter column can be set to not display; however, any Parameter that is specified is still applied to the Control

PLAYLIST DEFAULTS

Control	Specifies the default Playlist Control. The Control determines the trigger that sends the message to Air.
Parameter	Specifies the default Playlist Parameter for the specified Control. For example, if a delay is specified, the Parameter could be 00:00:00:15, indicating that there should be a half-second delay before the message plays to Air. Not all Controls have an accompanying Parameter.
Channel	Specifies the default channel in which the messages in the Playlist should play to Air.
Effect	Specifies the default effect to be applied to the messages in the Playlist when they play to Air.
File Name	This is a read-only field that can be displayed in the Playlist. It identifies the file name and filepath of the message.
Page	Page is a dynamic Playlist field. The specified name is used as the column header name and the Value field reflects the format used to calculate the values for the column's data. See “ASSET FORMATTING” on page 57. The settings shown in the figure are suited for ENPS. The following is a recommended setting for iNEWS: **%["([^@]*) *@ *(.*)" "%{../storySlug}" "\\1"]** The ampersand represents the story or page delimiter in the iNEWS Gateway mosconfig.xml file.
Slug	Slug is a dynamic Playlist field. The specified name is used as the column header name and the Value field reflects the format used to calculate the values for the column's data. See “ASSET FORMATTING” on page 57. The settings shown in the figure are suited for ENPS. The following is a recommended for iNEWS: **%["([^@]*) *@ *(.*)" "%{../storySlug}" "\\2"]**
Blank Fields	These are dynamic Playlist fields. The specified names are used as the column header names and the Value fields reflect the format used to calculate the values for the columns' data. Formatting is covered following this table.

ASSET DETAILS

Selecting **Asset Details** exposes the options shown in Figure 38.

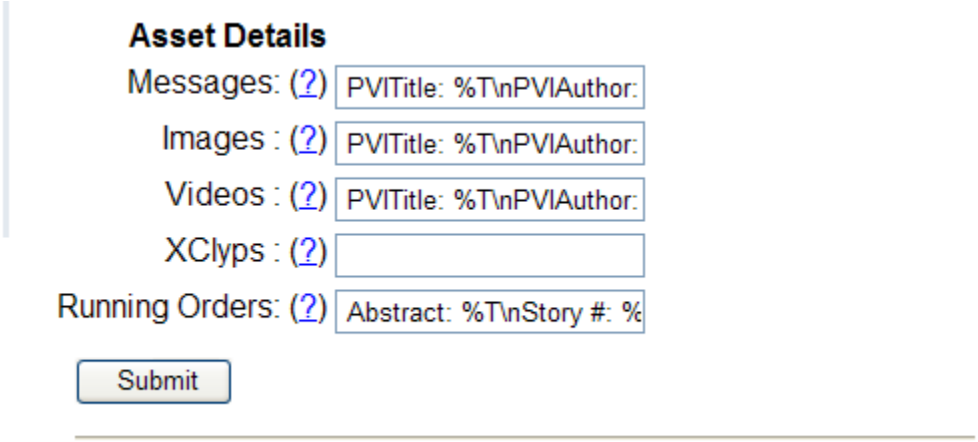


Figure 38 Asset Details Menu Options

Refer to the table shown below, for a description of Asset Details options.

Messages	Specifies the format for the Asset Details of the Messages. See “ASSET FORMATTING” on page 57. This is how the details of the asset will be displayed in the LUCI plug-in.
Images	Specifies the format for the Asset Details Images. Formatting is covered following this table. This is how the details of the asset will be displayed in the LUCI plug-in.
Videos	Specifies the format for the Asset Details Videos. This is how the details of the asset will be displayed in the LUCI plug-in.
XClyps	Specifies the format for the Asset Details XClyps.
Running Orders	Specifies the format for the Asset Details Running Orders. See “ASSET FORMATTING” on page 57. This is how the details of the asset will be displayed in the LUCI plug-in.

AUXILIARY PLAYBACK HOST

Selecting **Auxiliary Playback Host** exposes the options shown in Figure 39.

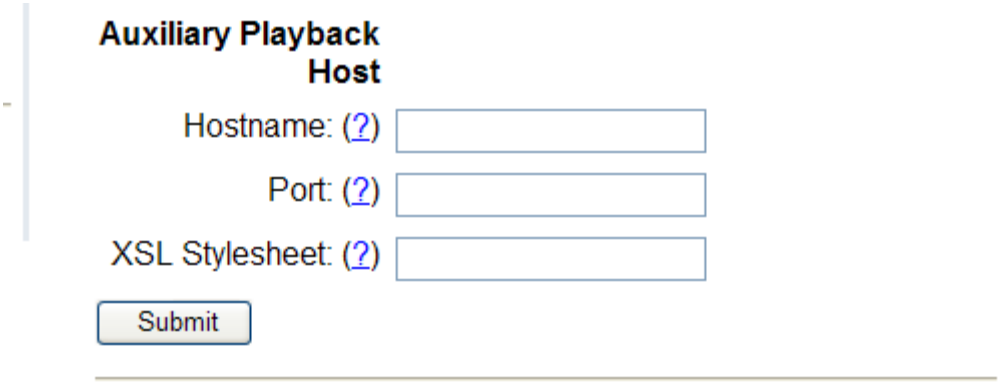


Figure 39 Auxiliary Playback Host Menu Options

Running Orders can be sent to an Auxiliary Playback system. Information regarding the system is specified in the Auxiliary Playback Host settings. The Auxiliary Playback Host items are described below.

Hostname	Specifies the Hostname or IP Address of the Auxiliary Playback System that is sent the Running Orders.
Port	Specifies the Port on the Auxiliary Playback System that listens for Running Order updates. Note that the Port on the Auxiliary Playback System must be set to receive the Running Order updates.
XSL Stylesheet	Stylesheet that specifies an XSL Translation that converts the Running Order XML before it is sent to the Auxiliary Playback System.

ASSET FORMATTING

The information displayed about an asset in LUCI is determined by the formatting set in the **Asset Details** section of the CAMIO MOS Manager (Advanced View must be selected to access the **Asset Details** section).

The identifier for a data element always starts with a % sign. The following table provides the format strings for the data elements.

FORMAT STRINGS

Format String	Data Element
%T	The Title of the asset
%A	The Author of the asset
%D	The Description (comments) of the asset
%K	The Keywords of the asset
%F	The Filename of the asset
%S	The Subject of the asset
%P	The Asset Class Moniker of the asset. Every asset belongs to an Asset Class that is a virtual directory folder for assets. The virtual directory tree exists in the Lyric database (*.mdb) file, and can be viewed or browsed through Chyron's AssetManager tool. The Asset Class Moniker is simply the user-friendly name of the virtual folder.

The information displayed in the Playlist, MOS Abstract (the code that specifies the MOS Object in a Script), and Slug (the code that specifies the MOS Object) is determined by the formatting set in MOS Administration. The identifier for a data element always starts with a % sign. The following table provides the format strings for the data elements.

FORMAT STRINGS

Format String	Data Element
%ad	The Duration for Automation (in Timecode format) of a MOS Object
%as	The Start Time for Automation (in Timecode format) of a MOS Object
%m	The message number of the MOS Object
%t	The Filename of the Template which the MOS Object was created
%s	The exact Slug as entered by the user in the Slug input field in the LUCI
%o	The Object ID of the MOS Object
%g	The story Slug of the MOS Object
%c	Channel assignment of MOS Object
%%	An explicit percent (%) character
%0	The first text field's text data in the MOS Object content
%1	The second text field's text data in the MOS Object content
%2	The third text field's text data in the MOS Object content
%3	The fourth text field's text data in the MOS Object content
%4	The fifth text field's text data in the MOS Object content
%5	The sixth text field's text data in the MOS Object content
%6	The seventh text field's text data in the MOS Object content
%7	The eighth text field's text data in the MOS Object content
%8	The ninth text field's text data in the MOS Object content
%9	The tenth text field's text data in the MOS Object content
%*	Same as "%0 %1 %2 %3 %4 %5 %6 %7 %8 %9"
%(### %.)	Repetitively emits the text content in between the opening and closing parentheses, once for each piece of text data in the MOS Object content, where the current iterative text data replaces the "%". For example, if the MOS Object's text data are as follows: **Transit Strike** **Monday, November 24, 2003** **City Hall** Then the resulting text is as follows: **### Transit Strike ### Monday, November 24, 2003 ### City Hall**

FORMAT STRINGS

Format String	Data Element
%.	Used in conjunction with **%()**. *See* **%(### %.)** *above*
%(%.)(15)	Similar to the above %(), but places a maximum iterative limit. In this example, the iterated text cannot exceed fifteen, even if there are sixteen or more pieces of text data in the MOS Object.
%{relative xpath notation}	The text content of the Running Order's MOS XML's <roCreate> tree's XML element specified by the relative xpath notation. The xpath notation is relative to the <item> element of the element tree. For example, to display the Story Number associated with the MOS Object item, the xpath notation would be: **../storyNum**

CAMIO DEVICE MANAGEMENT

PRELIMINARY

1. Start the CAMIO Admin Tool utility. See “OPENING the CAMIO ADMIN TOOL UTILITY” on page 44.

2. Select **Device** from the left navigation panel (Figure 40).

Figure 40 Selecting Device

3. The CAMIO Device Manager (Figure 41) opens.

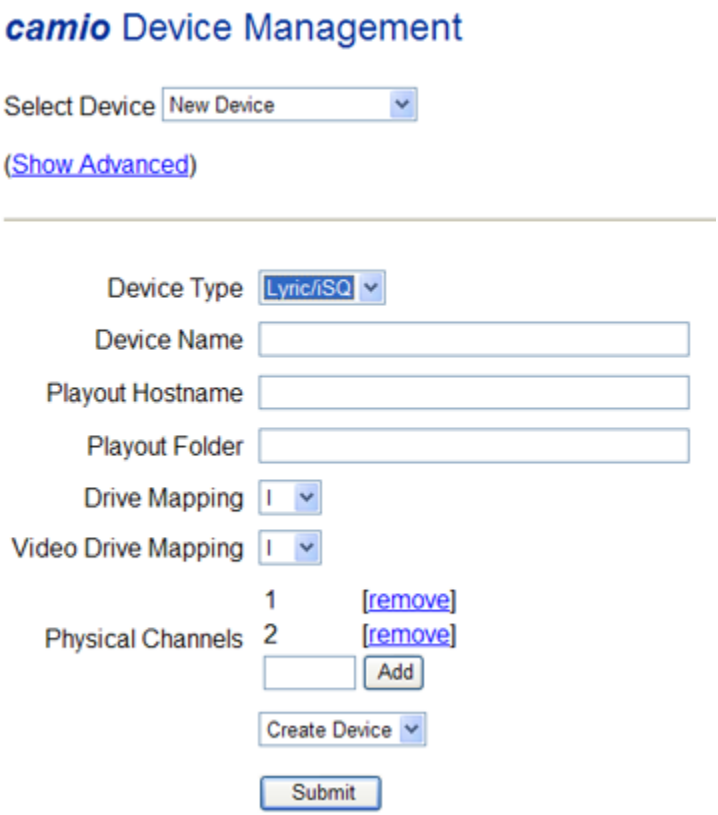


Figure 41 CAMIO Device Manager

SPECIFYING the DEVICE

1. Select **New Device** from the **Select Device** drop-down list box (Figure 40, page 60).

2. Enter a Device Alias in the **Device Name** field. The Device name does not have to match the computer name that is defined in the Playout hostname. The device name is how the machine is referenced in the context menu channel assignment fields. When a Device Name is entered, the Playout Folder field is automatically populated with the name of the folder on the Playout Hostname system where the rendered **Template Data Messages** are saved. This occurs by default. However, the folder name can be changed prior to submitting the new device settings.

The Playout Folder, to which the Template Data Messages and images substituted in LUCI are saved on the playout system, must be Shared. LUCI will automatically send the Template Description and Data Messages to this playout folder.

CAMIO Device Manager

3. Enter the Playout Hostname in the **Playout Hostname** field. The Playout Hostname is the computer name of the playout device.

4. Select a drive letter, from the **Playout Drive Mapping** drop-down list box, to specify the drive mapping Lyric messages use to reference images on the playout device. Note that the drive mapping should equal the playout hostname and folder.

An easy way of ensuring the drive mapping equals the playout hostname and folder is to share the SCSII drive (typically the I drive). This share then becomes the playout folder in these settings (e.g. a Playout device named "Hyperx1" has a I drive shared as "camioplayout"). The Playout Hostname and Playout folder (\\hyperx1\camioplayout\) then equal the drive I on the local machine. Alternately the playout folder can be mapped to an unused drive letter on the playout machine. This new drive letter would then be selected in the playout drive mapping dropdown.

ADD/REMOVE PHYSICAL CHANNELS

You can add/remove physical channels as follows (Figure 42):

Figure 42 Physical Channels

To add a channel:

a. Enter a channel number in the **Channel Number** field.

b. Click **Add**.

To delete a channel: Click [remove] next to the channel you want to remove.

SETTING the SOCKET PORT NUMBER (click (Show Advanced) to access this setting)

Locate the **Socket Port** field (Figure 43). The port number should be set to 10542.

Figure 43 Socket Port

CREATING the DEVICE

1. Select **Create Device** from the drop-down list box next to the **Submit** button.
2. Click **Submit**.

CAMIO CONTEXT MANAGEMENT

OVERVIEW

A Context is a group of templates, images, and videos that are used on a show or group of shows. Contexts are created to organize these templates and assign specific playback hardware channels using the AdminTool Contexts menu.

Contexts are available from the drop-down menu in the templates and images tabs of LUCI. Contexts are generally created to separate different styles (i.e. different look news graphics - morning news and evening new looks), but can also be used to group content available to specific individuals such as weather and sport Contexts.

The graphics and template messages in these Contexts can be managed using CAMIO's Admin tools or the Asset Manager. Chyron recommends that the management of Contexts be performed from the Asset Manager once the Context has been created in the Admin Tools.

PRELIMINARY

1. Start the CAMIO Admin Tool utility. See “OPENING the CAMIO ADMIN TOOL UTILITY” on page 44.

2. Select **Context** from the left navigation panel (Figure 44).

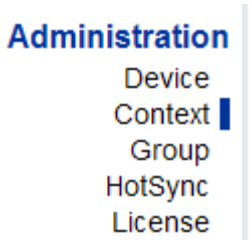


Figure 44 Selecting Context

3. The Context Manager (Figure 45) opens in the simple view. The simple view is sufficient for creating and editing Contexts, in most cases. However, in some instances it may be necessary to access the advanced view for more comprehensive configurations. To access and work with the advanced view, see “ADVANCED VIEW” on page 68.

NAMING the NEW CONTEXT

1. Select **New Context** from the **Select Context** drop-down list box.

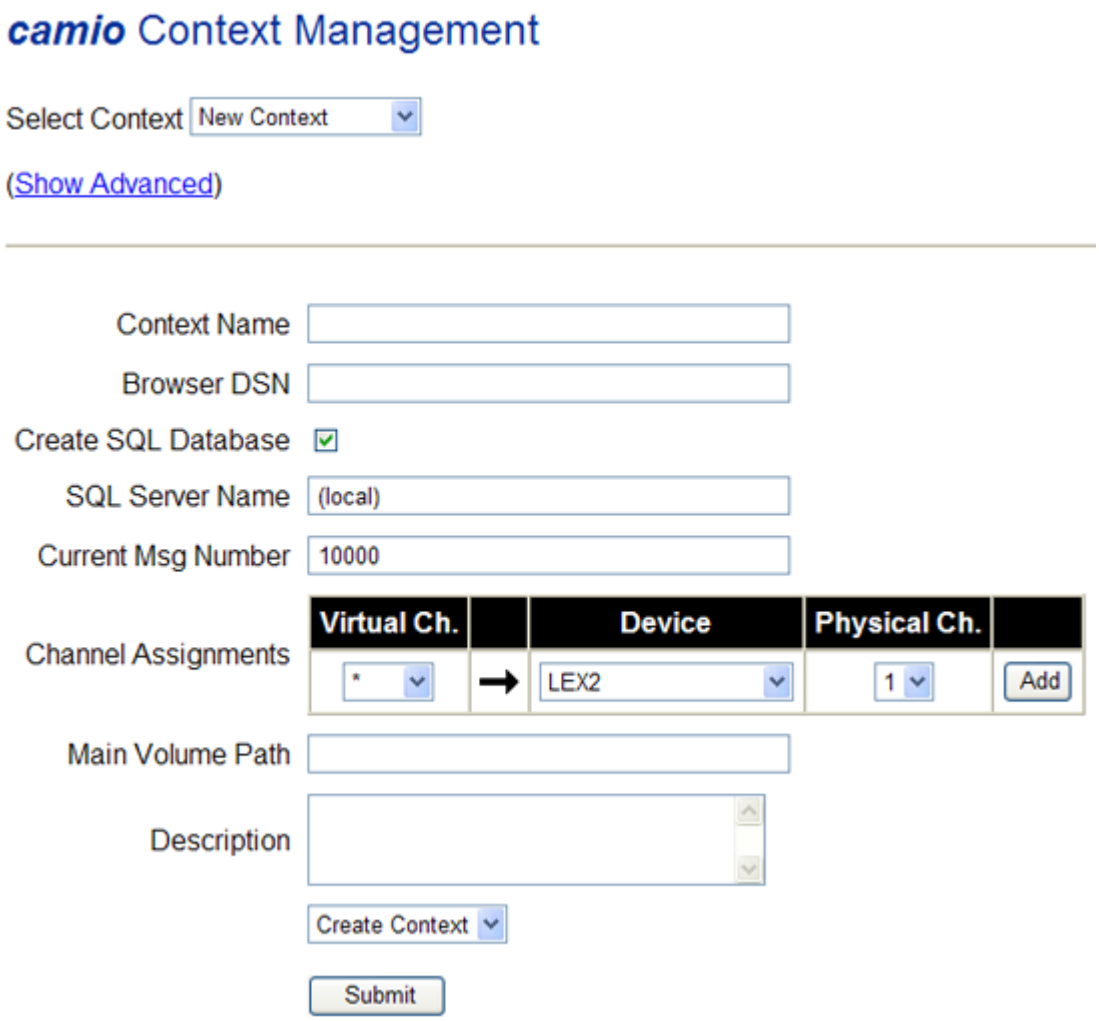


Figure 45 CAMIO Context Manager

2. Enter the name for the new Context in the **Context Name** field. The Context Name is used as a “Directory Namespace.” The Context Name must begin with a letter and may include underscore characters and a single dash but no spaces. When a new Context Name is entered, the **Browser DSN** field is automatically populated with a browser having the same name as the Context Name. This only occurs on initial data entry and can be changed to a different browser prior to submitting the new Context.

The Context Name may not be changed after being submitted. To change a Context to reference a different browser, the Context must be deleted and recreated with the new browser database.

CREATE SQL DATABASE CHECKBOX

The **Create SQL Database Checkbox** (Figure 46) should always be checked. Doing this specifies that an SQL database should be created for the selected Context.

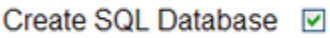


Figure 46 Create SQL Database Checkbox

CURRENT MSG NUMBER COUNTER

The value of the Current Msg Number counter (Figure 47) is automatically initialized to 10000, but can be changed to start at some arbitrary value.

Figure 47 Current Message Number Counter

Before changing this value, note that when the completed messages are sent to the output device, they are sent to a folder (of the same name as the Context) in the path set up using the Device Manager. If the type of composition is set to Template Data (see Context, advanced view), then the original Template Description Messages are sent to this folder on the output device, along with the created MOS Object (Template data) messages. Since the created message and template messages are sent to the same folder, it is recommended that the current message number be set to a value higher than any of the template message numbers, so that they are not overwritten by created MOS Object Messages.

NOTE

Each time a new MOS Object is generated, it is automatically assigned the value of the Current Msg Number + 1. This is automatically reflected in the Current Msg Number field.

Important

The Current Msg Number is specified only on initial setup of the Context. Once the initial setup is submitted, this number can no longer be changed. This is done to prevent the unintended overwrite of existing MOS Objects.

ASSIGNING VIRTUAL CHANNELS

Assigning channels enables the user to easily configure the output destination of the content created from this Context. Before any settings can be entered, however, devices must first be configured in the Device settings of Admin Tools. Once the device is configured: Select the channel association of the Lyric Message (this is done when the message is created in Lyric), then select an actual channel of a configured device, then select the actual device alias (as set up in the device settings).

Before assigning a virtual channel, it is important to assign a wild-card ("*") virtual channel. A wild-card virtual channel is used when a message has no default channel assigned or the channel that has been assigned to a message is not configured in the Context Menu. A wild-card virtual channel will route these messages to the playout device and physical channel assigned to the wild-card virtual channel.

NOTE

If no wild-card virtual channel is assigned, a warning message will be displayed when the Context is submitted.

To assign a wild-card virtual channel (Figure 48):

a. Select the "*" virtual channel from the **Virtual Channel** drop-down list box.

b. Select the desired physical channel from the **Physical Channel** drop-down list box.

NOTE

See "CAMIO DEVICE MANAGEMENT" on page 60, for detailed information on setting up playout devices.

c. Select a playout device from the **Device** drop-down list box...

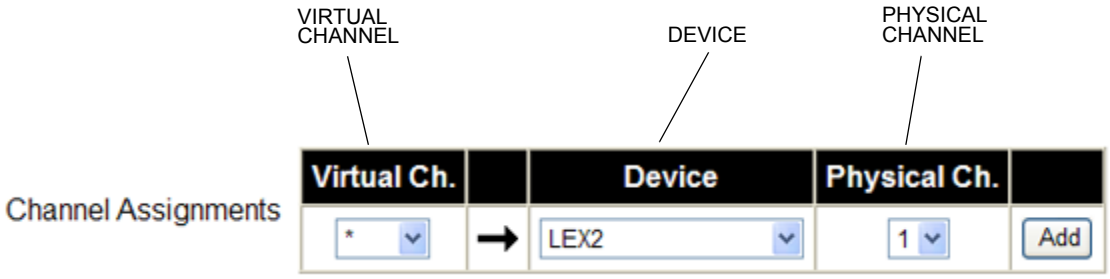


Figure 48 Assigning Channels

d. Click on **Add**. Note that the Channel Assignments area displays these selections. Figure 49 shows how typical channel assignments might look.

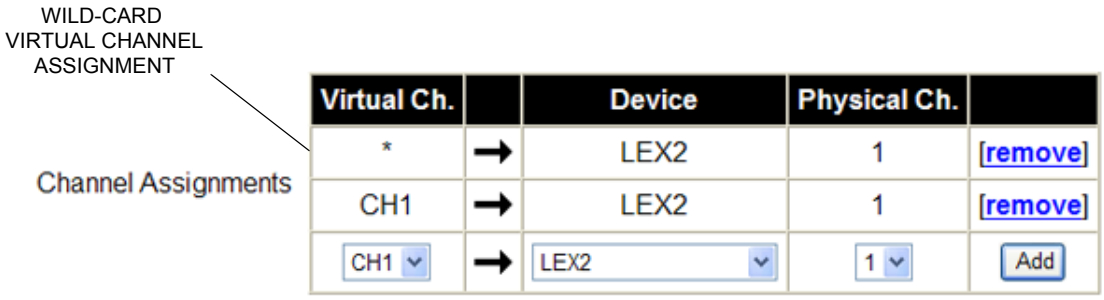


Figure 49 Typical Channel Assignments

To assign a virtual channel (Figure 48):

a. Select a virtual channel from the **Virtual Channel** drop-down list box.

b. Select the desired physical channel from the **Physical Channel** drop-down list box.

c. Select a playout device from the **Device** drop-down list box.

d. Click on **Add**. Note that the Channel Assignments area displays these selections. Figure 49 shows how typical channel assignments might look.

To delete one or more channel assignments, refer to Figure 49 and perform the following steps:

a. Click on **remove** next to each channel assignment to be deleted.

b. Select **Update Context**, from the **Context** drop-down list box.

c. Click on **Submit**, to update the Context.

Changes are not made until they are submitted.

ENTERING a DESCRIPTION

Enter a description (optional) of this Context's configuration and content in the **Description** field. See Figure 45.

CREATING the CONTEXT

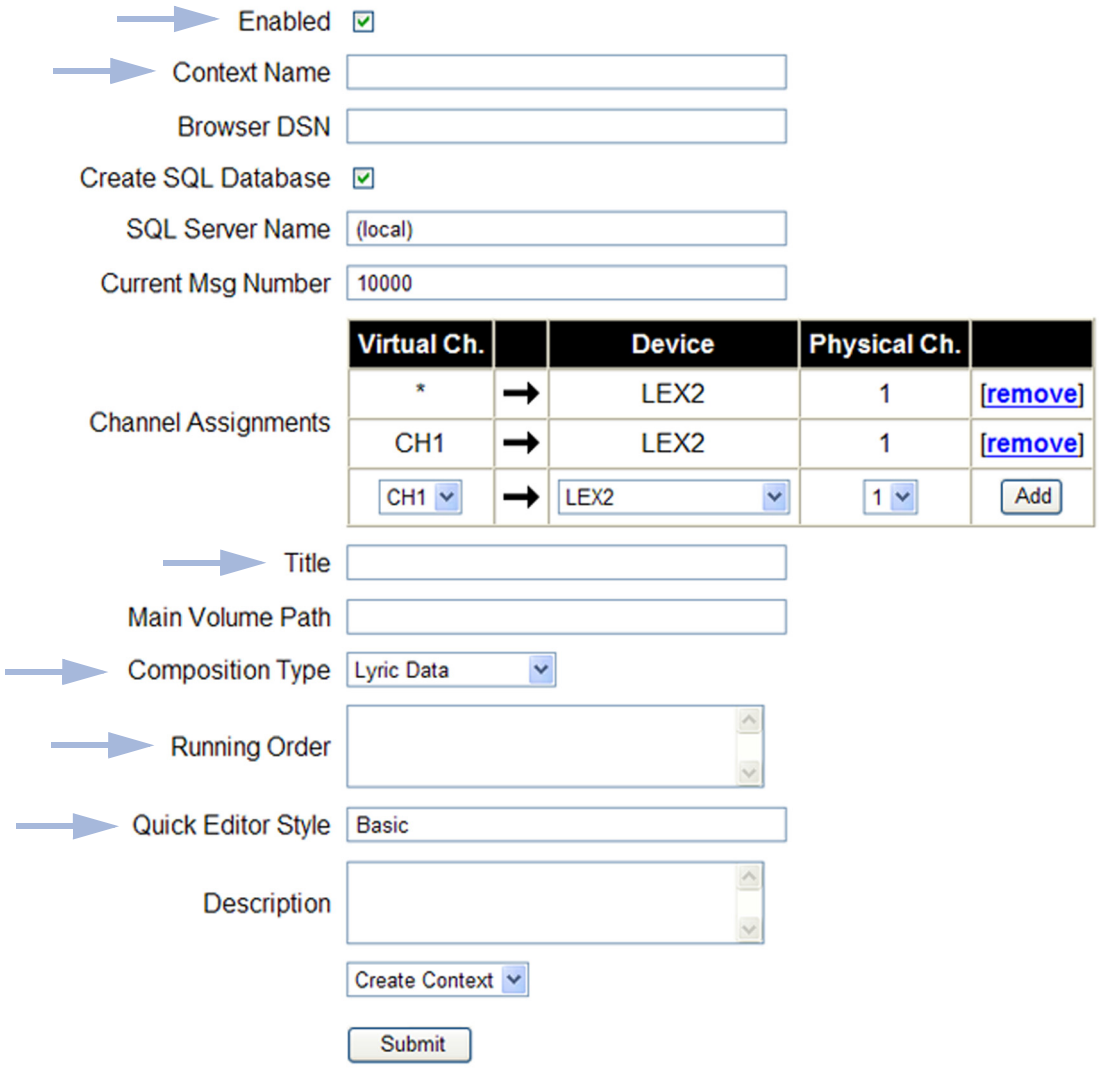
1. Select **Create Context** from the **Context** drop-down list box (Figure 48).

The Context Name may not be changed after being submitted.

2. Click on **Submit**, to create a Context based on the settings you entered**.**

ADVANCED VIEW

To display the Advanced View, click on (Show Advanced) , located to the right of the **Select Context** drop-down menu. The Advanced View is shown in Figure 50. The blue arrows indicate the Advanced View items.



NOTE 1: It is recommended that main volume path not be left on the "C" drive.

NOTE 2: Always select **Lyric Data**.

Figure 50 CAMIO Context Manager—Advanced View

The following table provides a description of Advanced View items.

ADVANCED VIEW ITEMS

Item	Description
Enabled button	Click this button to enable/disable this Context.
Context Name	Enter the Context's name.
Title	Enter the Context's title.
Main Volume Path field	Enter the local file system path to this Context's repository in this field.This is the path where objects added to the Context (via Asset Manager) are stored on the CAMIO server. This is usually set to **c:\CAMIO\[context name]**, but can be changed by entering a new file path. **NOTE:** drive should be sufficiently large to store all the **Template Description Messages** and replacement images
Composition Type drop-down list box	Select the type of information contained in this Context from the following items provided in the drop-down list box: **Lyric Data** - Lyric Data Messages always reference, on playout, the original **Template Description Message** from which they were created. When these assets are sent to the output device, the original **Template Description Messages** are also sent to the output device. Lyric **Template Data Messages** generally have a much smaller file size and are therefore more efficient in the CAMIO file transfer process. Chyron highly recommends that Lyric **Data Messages** be used in CAMIO. **Lyric Composition** - Lyric Composition files are completed Lyric graphics with no reference to the original file from which they were created. They generally have a much larger file size than Lyric Data messages. Therefore, they are not recommended. **LyQuick Editor Styleric Macro** - A Lyric Macro is a VB Script Macro that is saved as a *.lyr file. Refer to Lyric Online Help, for additional information on using Macros in Lyric.
Running Order field	Not currently supported
Quick Editor Style	This refers to the view of the Quick Editor in iSQ. The choices are either BASIC or ADVANCED.

CAMIO USER MANAGEMENT

INTRODUCTION

User Administration specifies user access to the CAMIO server. Users can be created, updated and deleted. Users can be added to or removed from Groups and can be given access to specified Contexts.

PRELIMINARY

1. Start the CAMIO Admin Tool utility. See “OPENING the CAMIO ADMIN TOOL UTILITY” on page 44.

2. Select **User** from the left navigation panel (Figure 51).

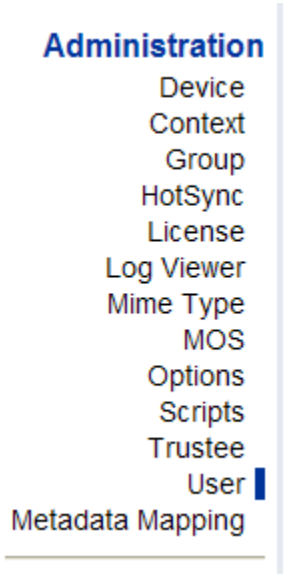


Figure 51 Selecting User

3. The User Management page (Figure 52) opens in the New User default view.

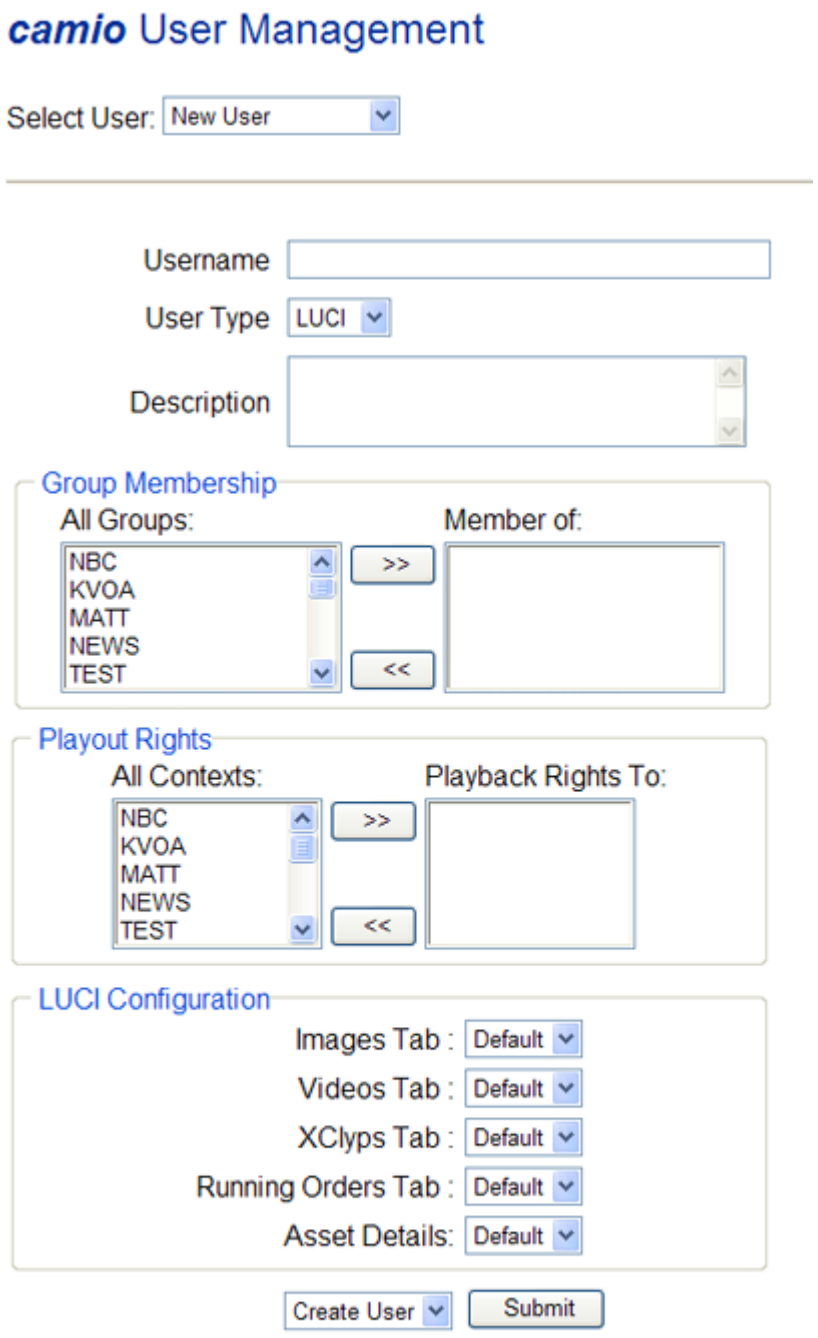


Figure 52 CAMIO User Management Page

USER MANAGEMENT in CAMIO

One of the features in CAMIO is its ability to manage permissions from a central location using the Admin Tool. The fundamental concept of user management in CAMIO is that Users are assigned to Groups that are Trustees of Contexts. The following definitions should make this clear.

Contexts A Context is a group of templates and media that are used on a show or group of shows. Contexts are created and assigned specific playback hardware channels using the AdminTool>Contexts menu.

Users CAMIO keeps a list of Users that require access to LUCI via the newsroom computer system. Users are created and assigned to Groups using AdminTool>Users.

Groups Users can be assigned to one or more Groups using AdminTool>Users and AdminTool>Groups menus. Groups make it easier to manager access rights to large numbers of users.

Trustees A Trustee is a Group that has access rights to a Context. Groups are assigned as Trustees using the AdminTool>Trustees menu. ("Read/Write Access" is the desired permission for any user that needs access to a Context.)

Users are assigned to Groups that are Trustees of Contexts.

DEFINING and MANAGING GROUPS

Default Context Groups Some of the complexity of this hierarchy is masked from the administrator by an automatic process that takes place. Whenever a new Context is created, CAMIO creates a Group of the same name, and makes it a Trustee of that Context with full permissions. Users then have to be individually added to this Group. This is the most common way in which Groups/Trustees is used, but it is difficult to manage large groups of users and Contexts in this way.

Creating Special Groups When managing large groups of users and many Contexts, it is useful to create special groups. For instance, the group MorningUsers can have access to a different set of Contexts than the group EveningUsers. The group SuperUsers can have access to everything. A group called AllUsers can be created that includes all users.

This simplifies administration, because a new user only needs to be added to the SuperUsers group to have access to all Contexts. More importantly, if a new Context is created, the Group AllUsers can be made a Trustee rather than individually adding each user.

Automatic User Entry The first time a user who is not registered in CAMIO logs in to LUCI:

- the user’s username is automatically added to the list of users
- the user is added to the All_Users group

This user will only have permissions to access contexts that have the group all_users assigned as a trustee. If this user is to have access to contexts that All_Users do not have access to, then he/she will need to be added to additional groups that are trustees to the desired contexts.

CREATING a NEW USER

To create a new user:

1. Be sure that New User is selected in the **Select User** field (Figure 53).

2. Enter a user name in the **User Name** field. The user name should be the same as the iNEWS client login or ENPS computer login for the individual users. If a user has tried to access LUCI from their newsroom system and has received a "Please contact you system administrator for access to LUCI Contexts" message then their name should already exist in the User List. This user should have access to any context with the All_Users group as a trustee to the context.

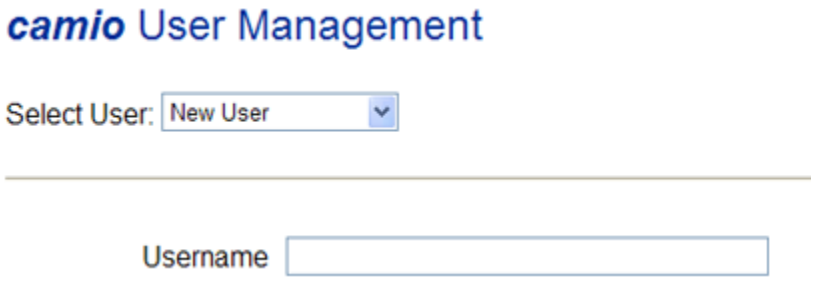


Figure 53 Enter a User Name

3. Select a user type from the **User Type** dropdown list.

A new user type, **Other**, is now available. Using this type, the administrator can now change the ADMIN password, create new accounts, and provide the Chyron operators with accounts to use for uploading templates to Camio using the **File>Save to Camio** menu selection.

4. If you selected **LUCI** in the **User Type** field, skip to step 5. If you selected **OTHER** as a User Type, enter a password in the **Password field** and enter it again in the **Confirm Password** field. Proceed to step 5.

5. Enter descriptive information (optional) in the **Description** field about the user.

6. Select a group from the **All Groups** list box and add it to the **Member of Group(s)** list box. Groups are set in the Group Administration page.

7. If you selected **LUCI** as a User Type, skip to step 8. If you selected **OTHER** as a User Type, click **Submit**, to create a new user and complete this procedure.

8. Select a Context from the **All Contexts** list box and add it to the **Playback Rights To** list box. Contexts are set in the Context Administration page. From the Context(s) in this list box, the user can play back **Template Data Messages** in the Running Order tab from LUCI.Note that this feature is currently disabled.

9. You may now configure LUCI. See LUCI CONFIGURATION, below.

Be sure to click **Submit**, once your choices are made.

LUCI CONFIGURATION

The LUCI Configuration (Figure 54) specifies which tabs/asset details in the LUCI ActiveX Interface in iNEWS or ENPS are visible and therefore accessible to the specified user.

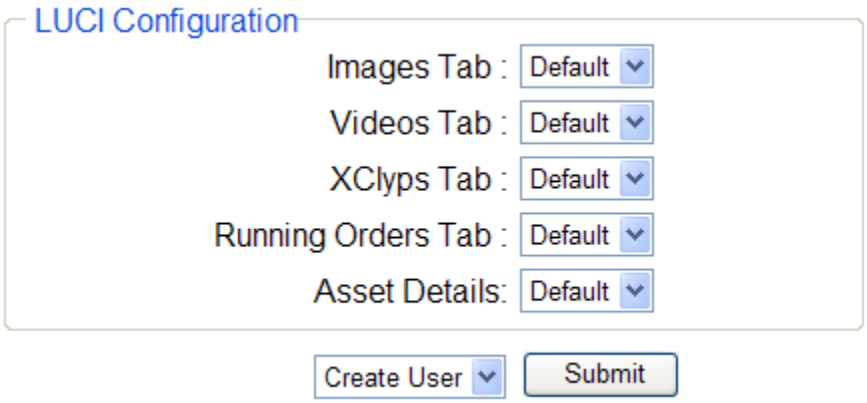


Figure 54 LUCI Configuration

There are five tab/information categories. Each one is described in the **Categories** table shown below.

CATEGORIES

Images Tab	Shows the Image assets for the selected Context. This must be set to **Show**, for image replacement to be available in LUCI.
Videos Tab	Shows the Videos assets for the selected Context.
XClyps Tab	Shows the XClyps assets for the selected Context.
Running Orders Tab	Shows the Running Orders.
Asset Details	Shows Asset Details, including 2D Text and Object Template fields, for the selected asset.

Three settings (selectable from each of the associated drop-down list boxes) are available for each of the above categories. Each one is described in the **Settings** table shown below.

SETTINGS

Default	The user is shown the tab/asset details, as set for the default user named CAMIO, that is set in this page.
Show	The tab/asset details are displayed and accessible to the user.
Hide	The tab/asset details are hidden and inaccessible to the user.

Make your selections based on the information provided above. Click on **Submit** after your choices have been made.

CREATING a DEFAULT USER NAMED CAMIO

A default user named CAMIO can be created from which the default settings for other users can be based.

To create the user named CAMIO (See Figure 54 “LUCI Configuration” on page 74)**:**

1. Enter the user name of CAMIO (all caps) in the **Username** field; select the desired settings for each of the categories (**Images Tab**, **Videos Tab**, **XClyps Tab**, **Running Orders Tab**, **Asset Details**).

2. Select **Create User**, from the drop-down list box to the left of the **Submit** button.

3. Click on **Submit**, to create a user based on the specified settings. This choice is available only when **New User** is selected in the **Select User** drop-down list box.

CAMIO GROUP MANAGEMENT

WORKING with GROUPS

INTRODUCTION

One of the features of CAMIO is the ability to manage user permissions from a central location using the Admin Tool. The fundamental concept of user management in CAMIO is that users are assigned to Groups that are Trustees of Contexts. The Admin Tools **Group** menu lets you create, update, and delete Groups.

1. Open the CAMIO Admin Tool. See “OPENING the CAMIO ADMIN TOOL UTILITY” on page 44.

2. Select **Group** from the left navigation panel (Figure 55).

Figure 55 Selecting Group

3. The Group Management page opens (Figure 56).

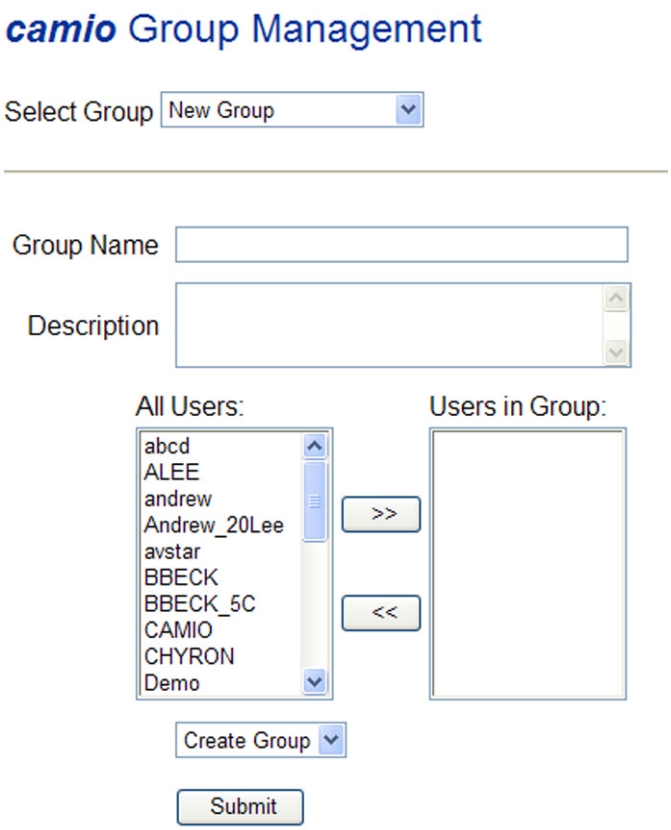


Figure 56 Camio Group Management Page

CREATING GROUPS

Group Administration sets up Groups and permissions for users within those Groups. Groups can be created, updated and deleted. Users can be added to or removed from Groups. The following table describes the functionality provided by the Group Administration page:

ITEM	DESCRIPTION
Select Group	Selects desired Group for edit, or initializes the fields when **New Group** is selected.
Group Name	Specifies the name of the Group.
Description	Descriptive information about the Group (optional).
All Users	Lists all recognized users within the directory **/CAMIO/Users**. Users are set in the User Administration page.
Users in Group	Lists the users that are members of the currently selected Group or, after editing, the users that will be members when the record is updated.
>> Button	Adds the selected user(s) from the **All Users** list to the **Users in Group** list.
<< Button	Removes the selected user(s) from the **Users in Group** list.
Submit	Executes action selected in the drop-down list box to the left of the **Submit** button. Actions include: • Update Group: Saves any changes made to the Group's record. • Delete Group: Removes the selected Group from the directory. • Create Group: Creates a Group based on the specified settings. This choice is available only when New Group is selected in the Select Group drop-down list box at the top of the Group Administration page.

CAMIO TRUSTEE MANAGEMENT

INTRODUCTION

A Trustee is a Group that has access rights to a Context. Groups are assigned as Trustees using the Trustee Administration page.

1. Open the CAMIO Admin Tool. See “OPENING the CAMIO ADMIN TOOL UTILITY” on page 44.

2. Select **Trustee** from the left navigation panel.

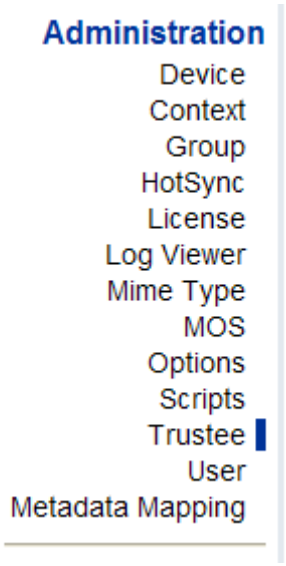


Figure 57 Selecting Trustee Management

The Trustee Management page opens (Figure 58).

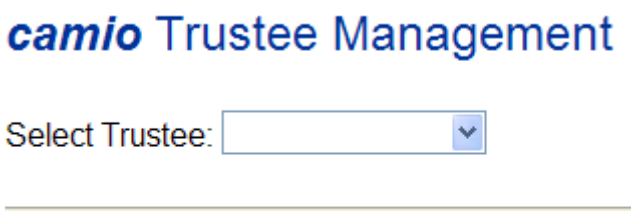


Figure 58 Camio Trustee Management Page

ADDING a TRUSTEE

Adds the selected Group to the list of Trustees.

To add a new Group as Trustee to a Context:

1. Select a group from the drop-down list box.
2. Click **Add Trustee**.

DELETING a TRUSTEE

The following procedure deletes the selected Trustee.

To delete a Trustee:

1. Select a Trustee to delete from the drop-down list box, as shown below in Figure 59.

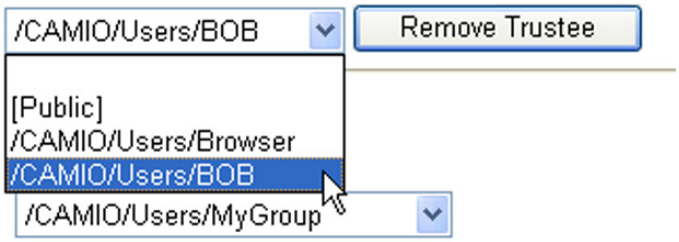


Figure 59 Remove Trustee

2. Click **Remove Trustee**.

CAMIO SCRIPT MANAGEMENT

WORKING with SCRIPTS

INTRODUCTION

The Admin Tool Scripts menu lets you control the CAMIO scripts.

1. Open the CAMIO Admin Tool. See “OPENING the CAMIO ADMIN TOOL UTILITY” on page 44.

2. Select **Scripts** from the left navigation panel.

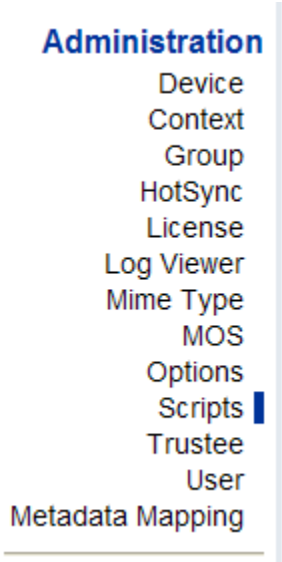


Figure 60 Selecting Scripts

The Script Management page opens (Figure 61).

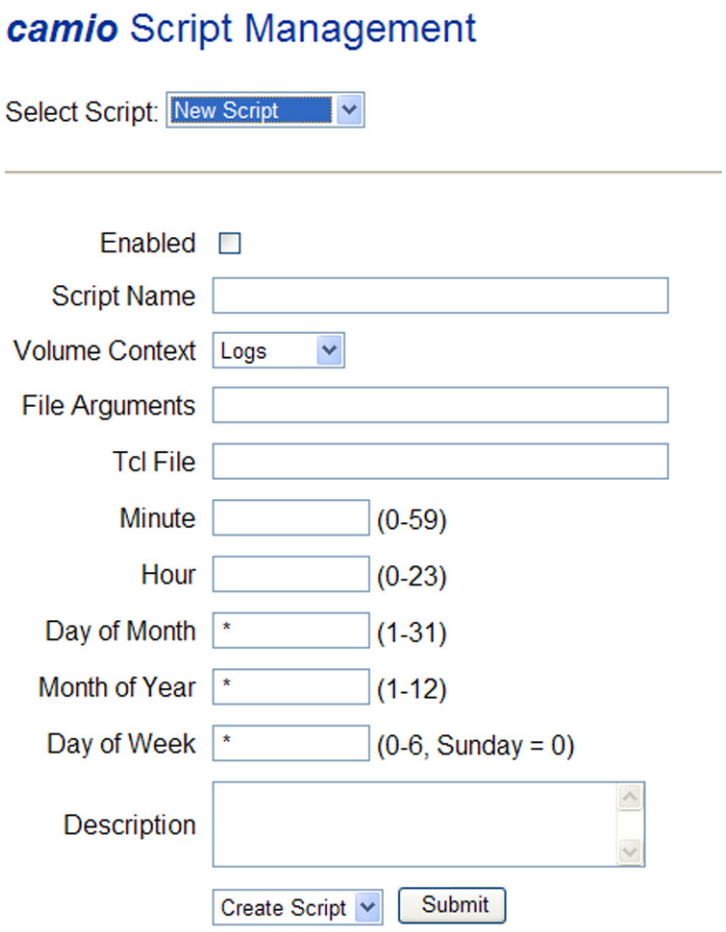


Figure 61 Camio Script Management Page

CAMIO Scripts are automated processes that run on a regular basis to perform housekeeping functions on the CAMIO server. Since the scripts temporarily disable CAMIO functionality, they should be run at a convenient time when it will not interfere with news operations—for example, between midnight and 3 A.M., but can be varied, to fit the station's schedule.

To select a script, click on the **Select Script** (Figure 62) drop-down list box.

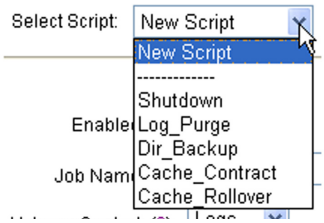


Figure 62 Select Scripts List Box

The following scripts are available:

Shutdown—Automatically restarts the CAMIO service. It does not restart the OS. By default it is run at 3 am every day.

Log Purge—This script deletes log files *n* days old. By default it is run at 2 A.M. every day and removes log files older than 3 days old.

Directory Backup—This script creates a backup of the CAMIO virtual directory structure. These backups can be used to restore the configuration and users of a CAMIO server. By default, it is run at 1:30 A.M. every day.

Cache Contract—This script moves all but the most recent 'MaxSize' items from the primary MOS object cache to the secondary cache. **MaxSize** specifies the number of items to keep in the primary cache. If MaxSize is zero (0), then all objects are moved out of the primary cache. By default it runs at Midnight every Sunday with a **MaxSize** value of 2000. Chyron recommends that **MaxSize** be set to 100 and that the Cache Contract run nightly.

Cache Rollover—This script must be manually run. It deletes all cache objects from a specified Context and resets the message number.

RUNNING the SCRIPTS

To adjust the time the script is run, enter the time in the appropriate fields and click on **Submit** to update the script.

Examples:

Shut Down Script

1. Select **Shut Down** from the **Select Script** drop-down list box.

2. Enter the following default settings:

Minute	0	**Month of Year**	*
Hour	3	**Day of Week**	*
Day of Month	*		
Note: "*" means 'every', as in every day, every month, etc.			

This script is now set to run at 3 A.M. of every day.

Cache Contract Script

1. Select **Cache Contract** from the **Select Script** drop-down list box.

2. Enter the following default settings for the **Cache Contract** script:

Minute	0
Hour	0
Day of Month	*
Month of Year	*
Day of Week	0
Note: "*" means 'every', as in every day, every month, etc. 0 = Sunday	

This script will run at Midnight on Sunday.

To run a script immediately, select **Run Script Now**. Click **Submit**.

OVERVIEW—MOS OBJECT CACHING in CAMIO

MOS Objects (Lyric messages) are created by LUCI in the NCS client. The MOS object is a very small **Template Data Message** and some associated XML data and thumbnails. The MOS object is saved in the **primary cache**, a data file on the CAMIO server. The **Template Data Message** is also immediately sent to the playback machine, along with any necessary images, videos, or **Template Description Messages**. As long as the **MOS object** lives in primary cache, the CAMIO system will monitor the playback machine and re-send the file in case it is deleted. If the playback machine is changed in CAMIO administrator, CAMIO will send a copy of the **Template Data Message** to the new machine.

The constant monitoring of the primary cache described above uses a lot of resources if the cache gets too large. Therefore, there is a process called "Cache Contract." Cache contract can be programmed to run on a regular basis and at a convenient time of day. It removes unused **MOS objects** from the primary cache and puts them into secondary cache. At the same time, it also deletes the associated **Template Data Messages** from the playback machine.

MOS Objects will remain in secondary cache unless manually deleted. There is no fixed policy on when to purge objects from the secondary cache. The size of secondary cache is limited only by the storage space on the CAMIO server. **MOS objects** can be re-used as long as they are still in secondary cache. If the NCS requests an old **MOS object** that was moved to secondary cache, it is moved back into the primary cache and re-loaded on the playout machine.

If using the cache, rollover script objects will not always be available. Each time the script is run all old objects will be overwritten by new objects. It is recommended that this script be disabled.

LOG VIEWER

WORKING with the LOG VIEWER

INTRODUCTION

The Log Viewer lets you view the logs generated by CAMIO. These logs record information that is useful for trouble shooting problems. If you have any problems you may be asked by your Chyron Customer Service technician to use this page to view a log.

1. Open the CAMIO Admin Tool. See “OPENING the CAMIO ADMIN TOOL UTILITY” on page 44.

2. Select **Log Viewer** from the left navigation panel (Figure 63).

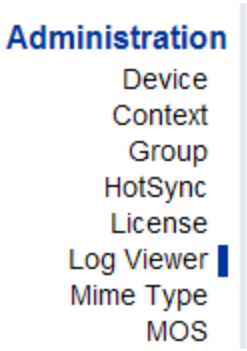


Figure 63 Selecting Log Viewer

3. The Log Viewer page opens (Figure 64).

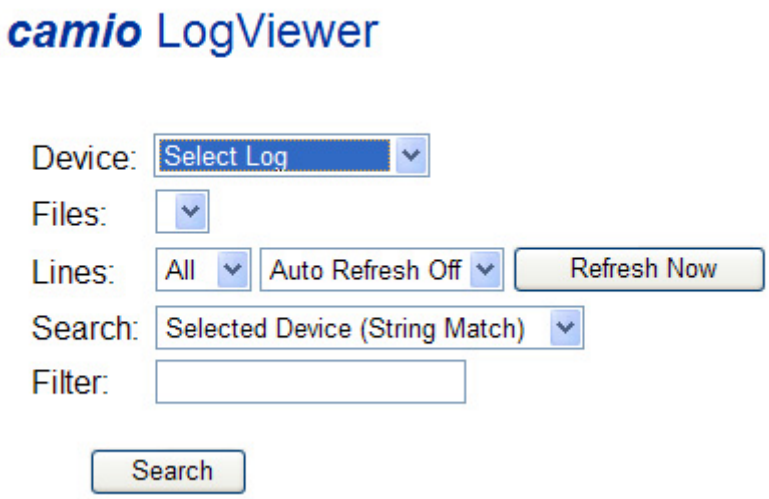


Figure 64 Log Viewer Page

FORMAT

All Log files are stored in the CAMIO/log directory in text files with names in the format:

year.month.day.hour.min.sec.log

For instance, **05.10.15.11.18.12.log** was first generated on 11:18:12, October 15th, 2005. All log events in the file are time stamped in a similar format.

BACKING UP YOUR LOGS

If you experience an unusual problem, it is often useful to backup your log files as soon as possible and zipping them up so that they can be e-mailed to Chyron for analysis. To do that, do the following procedure:

1. Select the c:/program files/Chyron/camio/log folder.
2. Right-click and send to Compressed (zipped) folder. This will create a file called **c:/program files/Chyron/camio/log.zip**.

MIME TYPE MANAGEMENT

WORKING with MIME TYPE MANAGEMENT

INTRODUCTION

Mime Type specifies to the CAMIO server how to interpret data that it processes.

1. Open the CAMIO Admin Tool. See “OPENING the CAMIO ADMIN TOOL UTILITY” on page 44.

2. Select **Mime Type** from the left navigation panel (Figure 65).

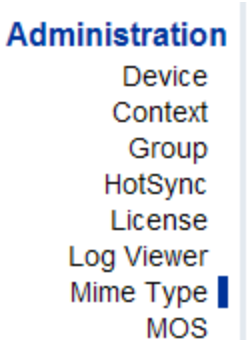


Figure 65 Selecting Mime

3. The **Mime Type** page opens (Figure 66, page 87). The table on page 88 describes the functionality provided by the Mime Type Management page.

Refer to “APPENDIX G: MIME TYPES” on page 150 for a listing of Mime types.

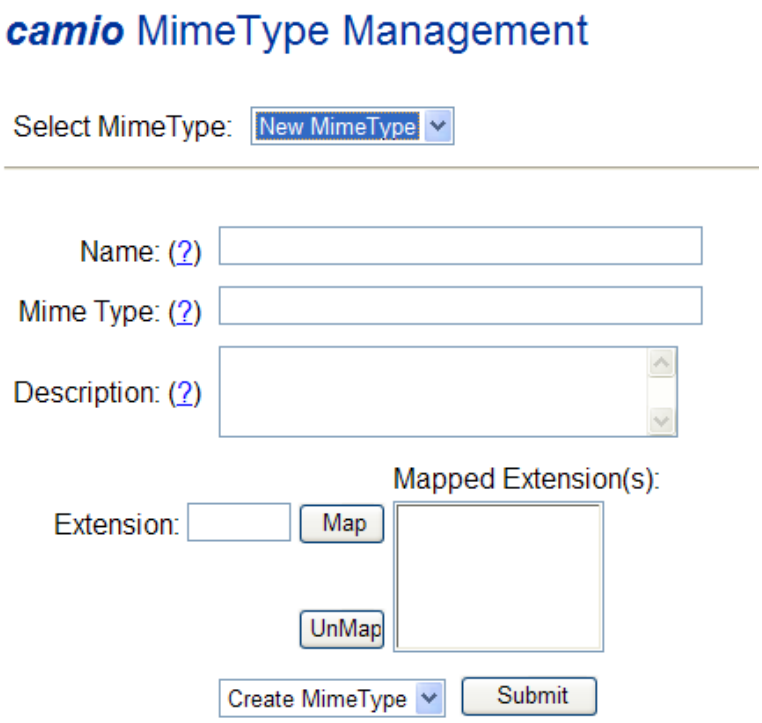
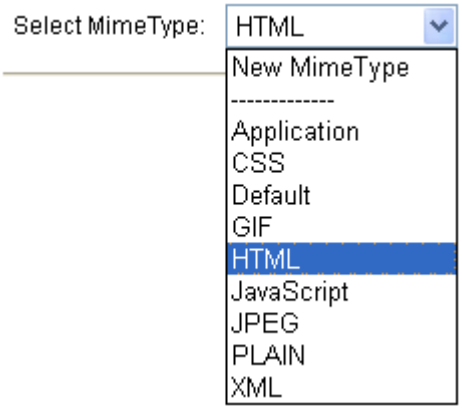
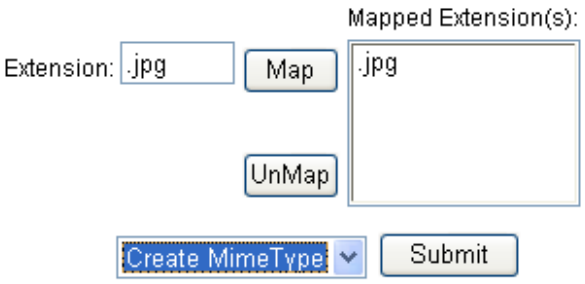


Figure 66 Mime Type Management Page

MIME TYPE MANAGEMENT PAGE

Parameter/Setting/ Function	Description
Select Mime Type Listbox	Specifies the Mime Type content string that is returned when the files with the specified extensions are returned to the user through the http device. The following shows a list of Mime types that might be found on a CAMIO server. 
Name field	Specifies the name of the Mime type.
Mime Type field	Specifies the Mime type string as *Type/sub-type.*
Description	Enter descriptive information regarding the Mime type in this field (optional).
Map Extension	An extension(s) can be mapped to a Mime Type. For example, the JPEG Mime type can include both .jpeg and .jpg extensions. 
Unmap Extension	Used to delete a mapping from the Mime type:

HOTSYNC FOLDER MANAGEMENT

WORKING with HOTSYNC FOLDER MANAGEMENT

INTRODUCTION

The user can define one or more Hot Sync folders. Each folder can deliver assets to a chosen context subfolder along with a chosen metadata mapping.

1. Open the CAMIO Admin Tool. See “OPENING the CAMIO ADMIN TOOL UTILITY” on page 44.

2. Select **HotSync** from the left navigation panel (Figure 67).

Figure 67 Selecting HotSync

3. The **HotSync Folder Management** page opens (Figure 68).

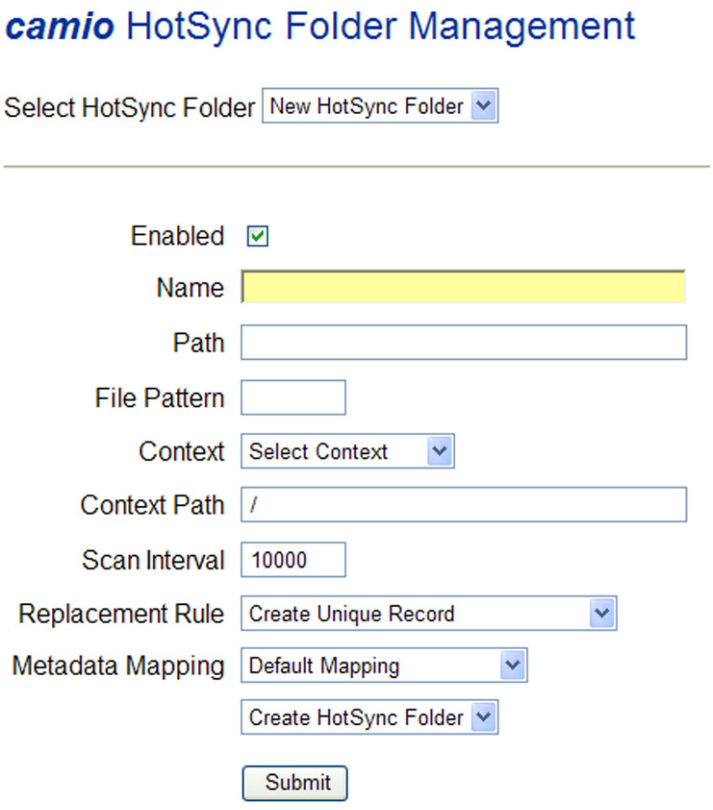


Figure 68 HotSync Folder Management Page

To create a Hot Sync folder:

1. In the **Name** field, enter a descriptive name for the hot sync folder.

2. In the **Path** field, enter the absolute pathname or UNC pathname.

3. Enter a file pattern in the **File Pattern** field. This pattern specifies the file mask which determines which files to process. For example, **c:\CAMIO\Hot Sync Images*.jpg** will only process jpg files. Note that ***.*** will accept all files.

4. Select the context you want the asset delivered to from the **Context** drop-down list.

5. In the **Context Path** field, specify an absolute path to where in the Context processed files will be stored. For example, **/** is the root and **/Images** is the Images folder directly under the root.

6. The value (in milliseconds) in the **Scan Interval** field determines how often Camio will check the HotSync folder for new assets. The default value should only be changed by knowledgeable users.

7. Select a replacement rule from the **Replacement Rule** drop-down list. The available choices are defined below:

    - **Create Unique Record**—renames asset file with UUID to prevent overwriting a file if a file with the same name is uploaded via the same hotsync.

    - **Create and Update**—maintains original filename and will allow overwriting (updating) if a file with the same name is uploaded via the same hotsync.

    - **Update Only**— same as Create and Update, except that an image name that does not match an image already in the folder is not ingested

    - **Create and No Update**—same as Create and Update, except that an image name that matches an image already in the folder is not ingested.

    - **Create and Update with given UUID**—same as Create and Update, except that the asset's filename is used as the UUID (this should be used only when an XML sidecar will be delivered with the asset, as in WAPSTR, AXIS, or OMS appliocations.

8. Select which metadata mapping you want to use from the **Metadata Mapping** drop-down list.

9. Click **Submit**.

NOTES:

CHAPTER 7 CAMIO ASSET MANAGER

OVERVIEW

The Asset Manager is a powerful tool in CAMIO for managing graphics and Lyric templates (also referred to as assets). It can be used as part of the MOS newsroom system for managing MOS assets or for management and distribution of assets independent of a MOS newsroom system.

The Asset Manager allows users to browse and manage graphics both locally and remotely on CAMIO connected systems. Assets can be viewed, sorted, edited, copied, deleted, and downloaded. A virtual folder hierarchy enables simple, yet sophisticated organization.

TWO VERSIONS

Two versions of Camio Asset Manager are currently supported. The latest version is described in this chapter. The prior version is described in “APPENDIX F: CAMIO ASSET MANAGER (legacy)” on page 134. This is the last version of Camio to support legacy versions of Asset Manager.

NEW ASSET MANAGER ADDITIONAL FEATURES

- requires no JAVA Permissions to download assets
- supports the new replication function
- supports Mac using Safari and Firefox browsers
- supports PC using Safari, Firefox, and Internet Explorer browsers

GETTING STARTED

If you have not already done so, install the new Asset Manager. See “INSTALLING the NEW ASSET MANAGER” on page 19.

CONNECTING to a LOCAL HOST (from the CAMIO server)

The Service Broker must be running to access the Asset Manager.

1. Open a Web browser.
2. Enter the following URL: **http://localhost:8080/assetmanager** (8080 is the data connection port used by CAMIO), or click on **Start>All Programs>Chyron>Camio>Asset Manager**.

3. Click **Enter** or **Go**. To Open the Login Window click on **Open System**; the Login window is displayed (Figure 69).

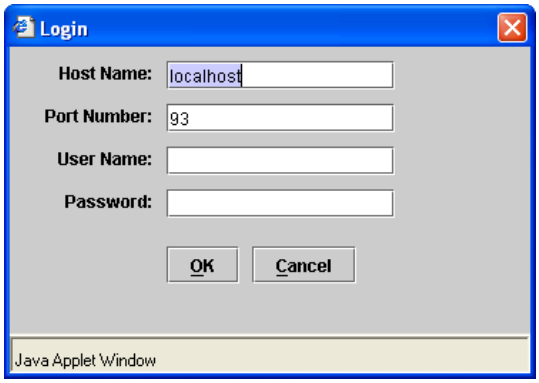


Figure 69 CAMIO Asset Manager Login Window

4. Enter the CAMIO server name (or localhost if opening Asset Manager from the CAMIO server), a user name, and password.

5. Click **OK**. The Asset Manager is displayed, See Figure 71 on page 94.

CONNECTING to a REMOTE HOST (from a remote computer)

The Asset Manager can be accessed using a URL that contains either the System Name or IP Address, as shown below:

http://<*servername*>:8080/assetmanager

or

http://<IP address>:8080/assetmanager

For example, the following URLs for the server CAMIO-R1 with an IP Address of 10.10.2.204 would be valid:

http://camio-r1:8080/assetmanager

http://10.10.2.204:8080/assetmanager.html

To connect to a remote host:

1. Enter a URL as described above.

2. Click **Enter** or **Go**. The Login window is displayed (Figure 69).

Figure 70 Login Window

3. Enter a user name and password.

4. Click **Sign In!**. The Asset Manager is displayed (Figure 71).

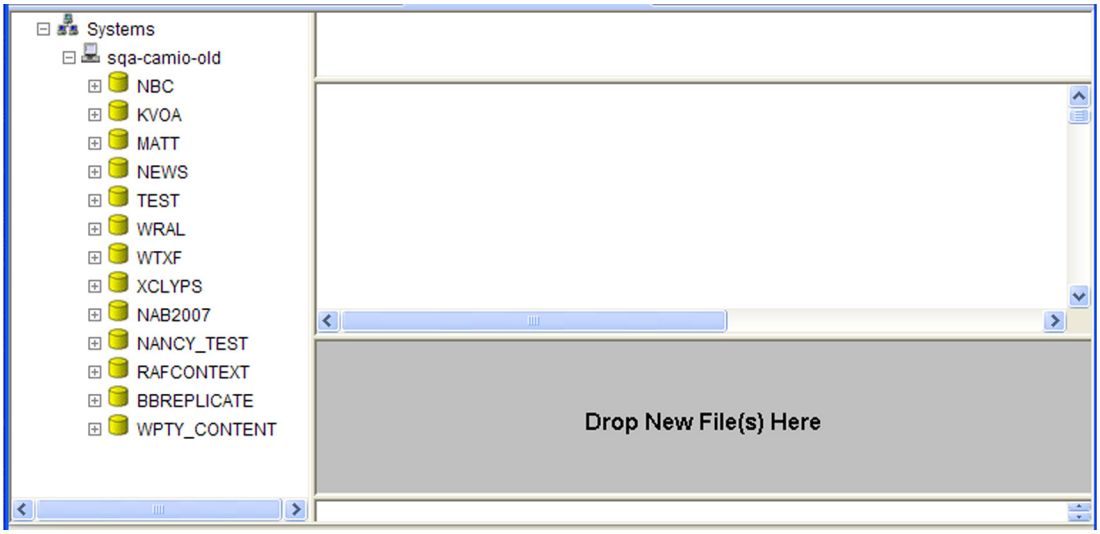


Figure 71 CAMIO Asset Manager

ASSET MANAGER INTERFACE

The Asset Manager Interface (Figure 72) consists of a Server/Context window, an Asset Display window, and an area where files may be dropped and entered into Asset Manager.

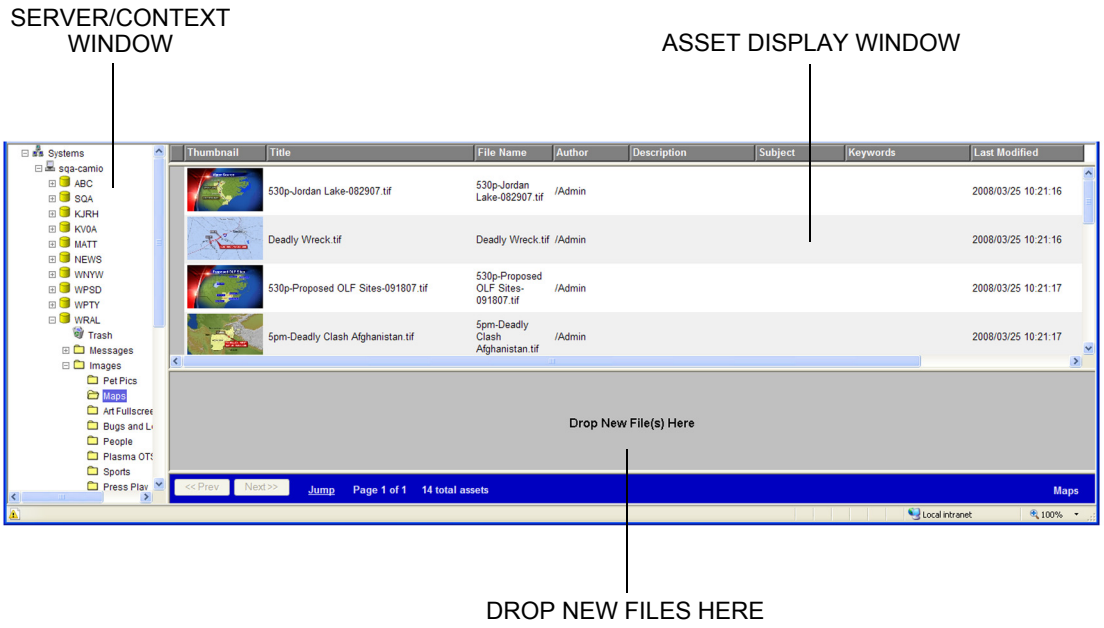


Figure 72 ASSET MANAGER INTERFACE

Server/Context Window (Figure 73) - displays the various servers on the system, Context icons, and any Context sub-folders.

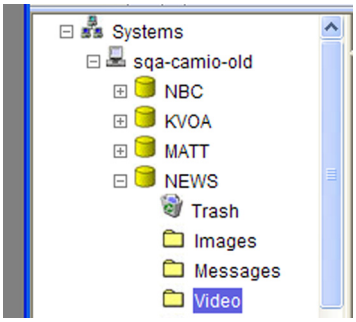


Figure 73 Server/Context Window

A plus sign to the left of the Context icon indicates that there are sub-folders in that Context. Clicking on the plus sign will expand the view and allow you to browse the sub-folders.

Using Context sub-folders provides a convenient way to organize different types of assets within a Context. The recommended folder hierarchy, shown below, matches the Lyric browser hierarchy.

- messages
- images
- XClyps
- videos

Asset Display Window (Figure 74) - displays Context assets. Note that assets with Alpha channels display a checkerboard background.

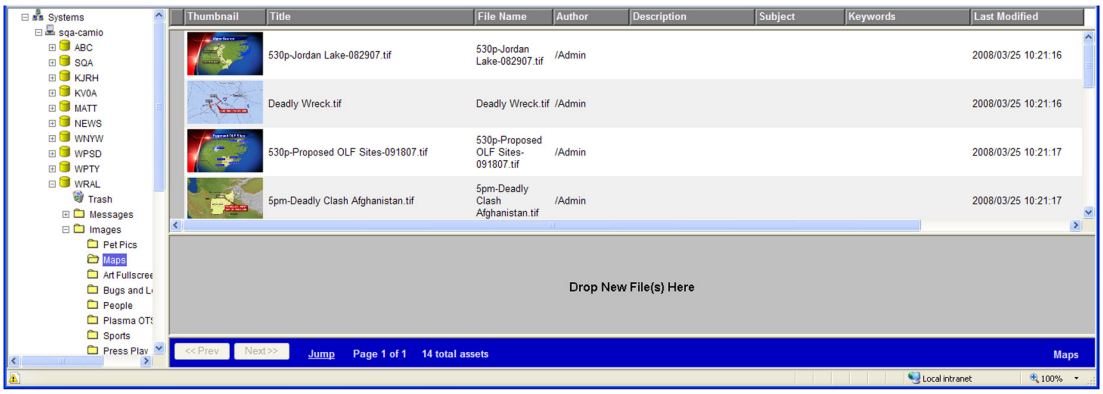


Figure 74 Asset Display Window

Right-clicking on the Asset Display Window displays a context menu (Figure 75) whose menu items you can use to:

- change icon size
- switch to thumbnail view
- refresh display
- set which columns are displayed

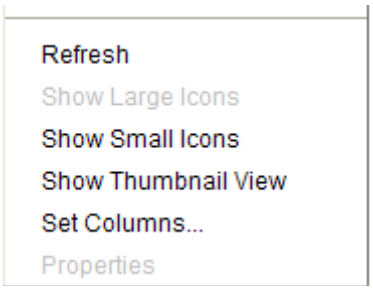


Figure 75 Asset Display Window—Context Menu

Refresh Display, Change Icon Size, Switch to Thumbnail View

To refresh the display or change icon size or switch to the thumbnail view, simply select the desired menu item.

Selecting **Show Small Icons** from the context menu changes the display to appear as shown in Figure 76).

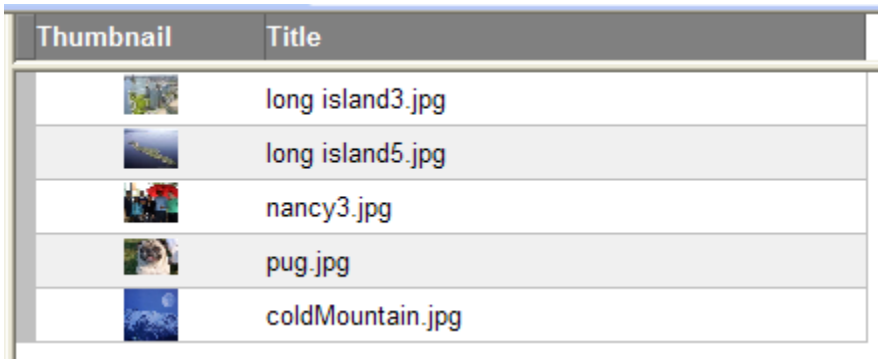


Figure 76 Small Icons

Selecting **Show Large Icons** from the context menu changes the display to appear as shown in Figure 77).

Figure 77 Large Icons

Selecting **Show Thumbnail View** from the context menu changes the display to appear as shown in Figure 78).

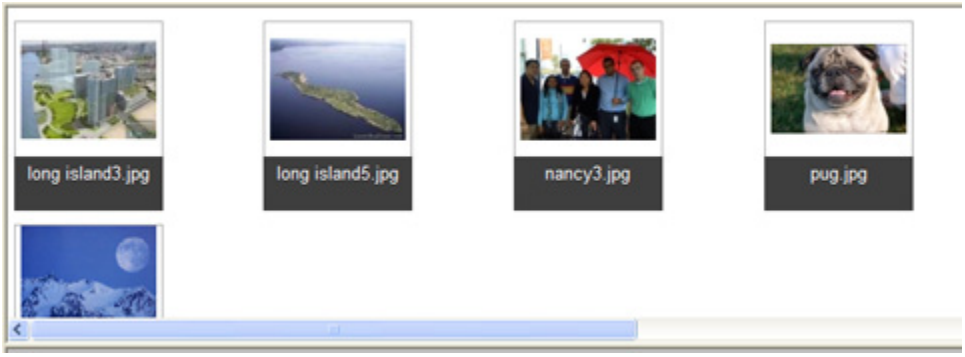


Figure 78 Thumbnail View

Set Columns

To set which columns (metadata fields) are displayed, select **Set Columns** from the context menu. The **Show Metadata Fields** dialog (Figure 79) is displayed.

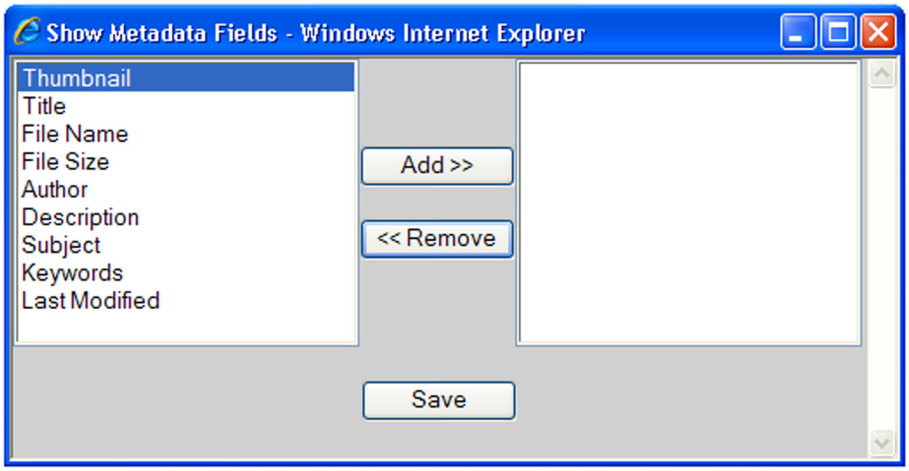


Figure 79 Show Metadata Fields Dialog

To add one or more fields, select the desired field(s) from the window on the left and click **Add**. To remove one or more fields, select the desired field(s) to remove from the window on the right, and then click **Remove**.

WORKING in ASSET MANAGER

ENTERING FILES

In the following procedures, you will be uploading files to Asset Manager.

ENTERING FILES ONE at a TIME

To enter a file:

1. Any file type can be entered in Asset Manager. Simply drag and drop the file onto the indicated area (Figure 80).

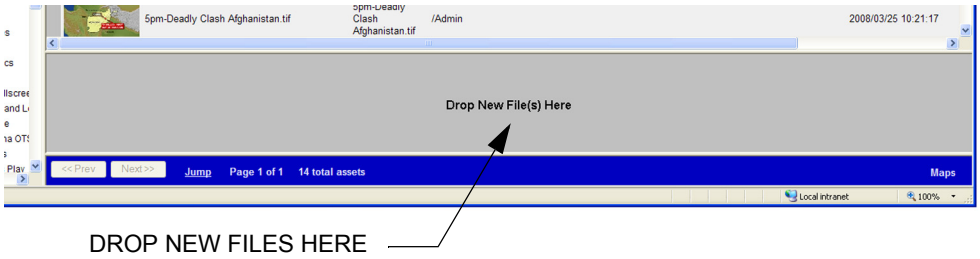


Figure 80 Entering Assets

2. After dropping the new file in the indicated area, the **New Asset Details** dialog (Figure 81) is displayed. Use this dialog to enter meaningful metadata about the asset in the **Subject**, **Keywords**, and **Comments** fields.

Important

It is important that meaningful metadata is entered to facilitate searching the asset database at a later time. Asset Manager has a search tool that allows you to search for files using this metadata. The metadata is also used by the newsroom to conduct searches in LUCI.

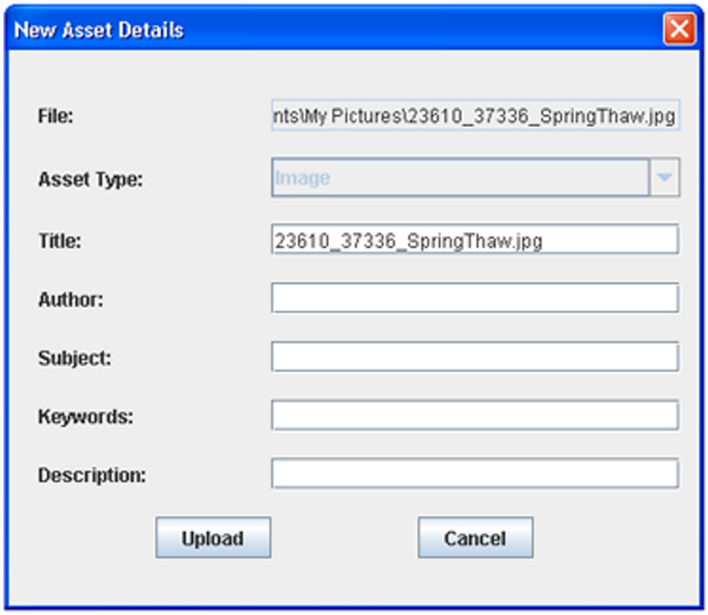


Figure 81 New Asset Details Dialog

3. When done entering metadata, click **Upload**. The new file is then uploaded to the Asset Manager, and a thumbnail image of the file is displayed in the Asset Display window, along with the accompanying metadata.

ENTERING MORE THAN ONE FILE at a TIME

To enter files:

1. Use Ctrl + click to select multiple files and drag and drop them onto the indicated area in Asset Manager. The **New Asset Details** dialog (Figure 82) is displayed.

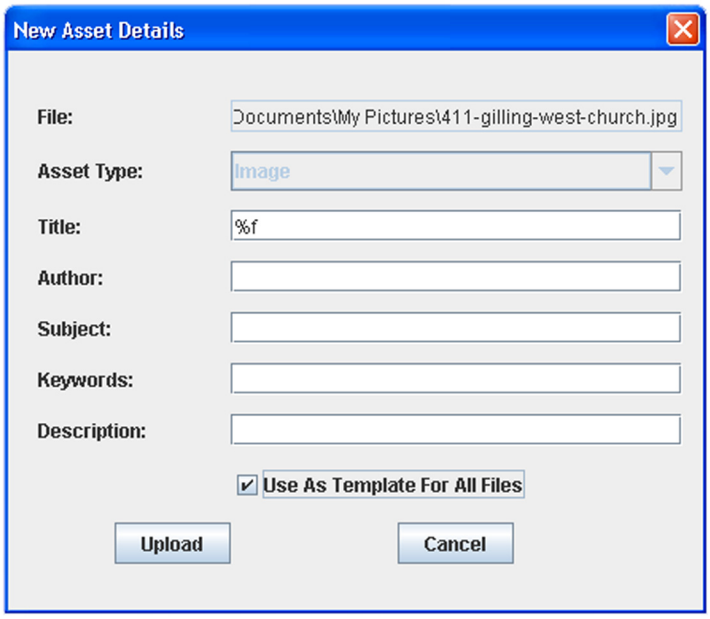


Figure 82 New Asset Details—Use as Template For All Files

2. Enter meaningful metadata about the files in the **Subject**, **Keywords**, and **Comments** fields.

See “ASSET FORMATTING” on page 57 for a listing of format strings you can use.

3. Check the **Use As Template For All Files** checkbox (applies the metadata you enter to all selected files), or leave it unchecked (allows you to enter metadata separately for each of the selected files).

4. Click on **Upload**.

5. If you checked **Use As Template For All Files**, click **Upload** and skip to step 8. Otherwise, proceed to step 6.

6. When done entering metadata for the first selected file, click on **Upload**.

7. Enter metadata for the next selected file. Click on **Upload**. Repeat step 6 and step 7 until all the files have been uploaded. Then, proceed to step 8.

8. All the files will be uploaded to the Asset Manager with the metadata you just entered. A thumbnail image of each of the uploaded files is displayed in the Asset Display window.

STORING IMAGE FILES and LYRIC TEMPLATES

Asset Manager handles the storing of image files and Lyric templates as follows:

Image Files
An image file will generate a thumbnail image when entered into Asset Manager. These thumbnail images will also be displayed in LUCI's Image Browser when the applicable Context is selected.

Lyric Templates
To use Lyric templates in LUCI, they must have been previously saved with XML. See *Saving Lyric Templates with XML*, below. Asset Manager will report an error in the Status Window, if you try to store a **.lyr** file that does not have XML in it.

SAVING LYRIC TEMPLATES with XML

In order to enter Lyric templates into Asset Manager, they must have been previously saved with XML. To do this, save the template in Lyric. Lyric must be running on a template creation workstation that has the XML and MOS plug-ins installed and configured correctly. See "INSTALLING the NEW ASSET MANAGER" on page 19. The template creation workstation can be an offline Lyric system or a Lyric-based system. The template creation workstation should not be on the CAMIO server.

The template creation workstation can be an offline Lyric system or a Lyric-based system. The template creation workstation should not be on the CAMIO server.

CONTEXTS

Clicking on a Context icon will display all the assets in the Asset Display window. A plus sign to the left of the Context icon (Figure 83) indicates that there are sub-folders in that Context. Clicking on the plus sign will expand the view and allow you to browse the sub-folders.

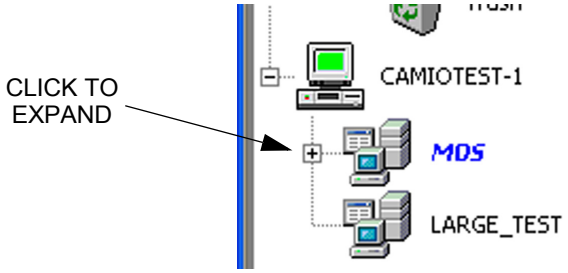


Figure 83 Click to View Subfolders

CONTEXT SUBFOLDERS

Using Context subfolders offers a convenient way to organize different types of assets within a Context. It is recommended to create and name folders that match the content that will be uploaded.

Adding a New Folder

To add a new folder:

1. Right-click on the Context.

2. Select **New Folder** from the context menu that appears. The **Create Folder** dialog appears (Figure 84).

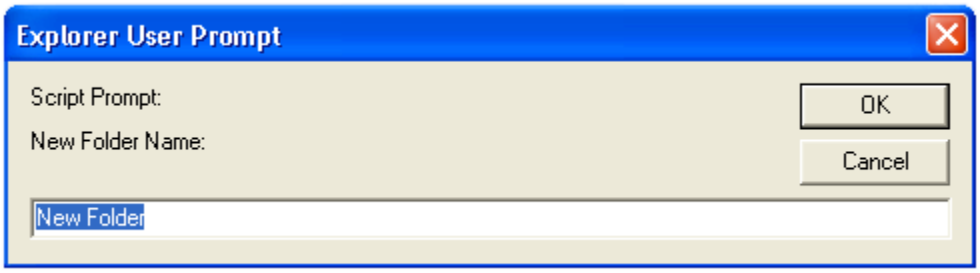


Figure 84 Create Folder

3. Enter the name of the new folder.

4. Click **OK**.

To use Lyric templates in LUCI, they must have been previously saved with XML. Asset Manager will report an error in the Status window if you try to store a .lyr file that does not have XML in it.

DELETING OBJECTS

To delete an object from a Context, right-click on the object and select **Delete**. The object will then be moved into the Trash bin and may be deleted from there. To delete the contents of the Trash bin, right-click on the Trash bin and select **Empty Trash**.

To delete an object without moving it to the Trash bin, hold down the **Shift** key, while performing the delete operation. This operation cannot be undone.

VIEWING/EDITING OBJECT PROPERTIES

Object properties can be edited once an object has been uploaded by right clicking on the object and selecting **Properties**. The **Properties** dialog appears with the **General** tab selected by default. See Figure 85. The **Properties** dialog allows edits to be made to the metadata as well as offering the ability to change Virtual channel assignments and snap frames. See below for detailed descriptions of these tabs.

General Tab (Figure 85) - The **General** tab displays the Lyric message number, type of file, Lyric build number, and other pertinent file information including if files were saved with XML (see **Attributes**).

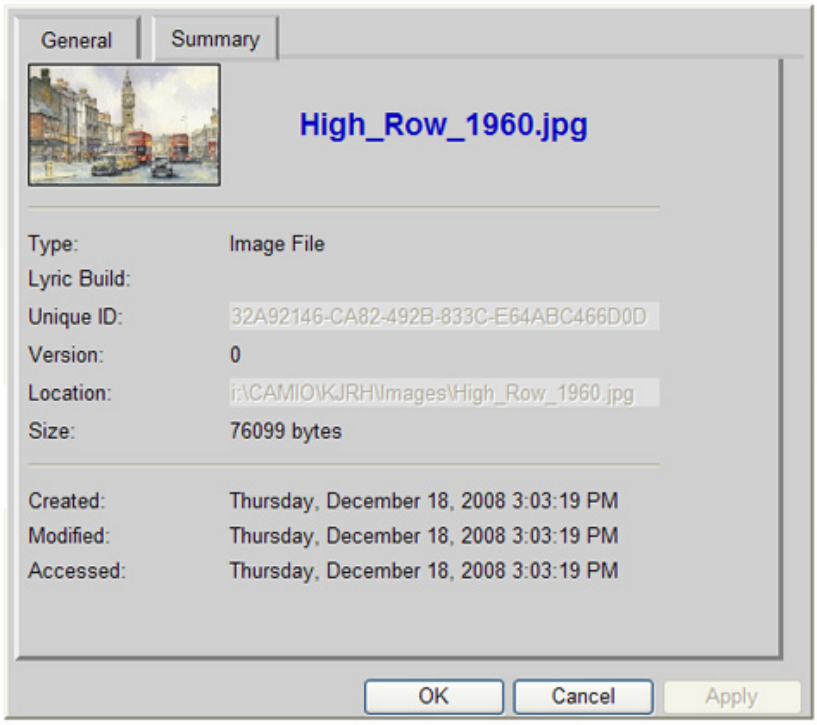


Figure 85 Properties—General Tab

Summary Tab (Figure 86) - The **Summary** tab provides **Title**, **Subject**, **Author**, **Keywords**, and **Description** fields that may be edited.

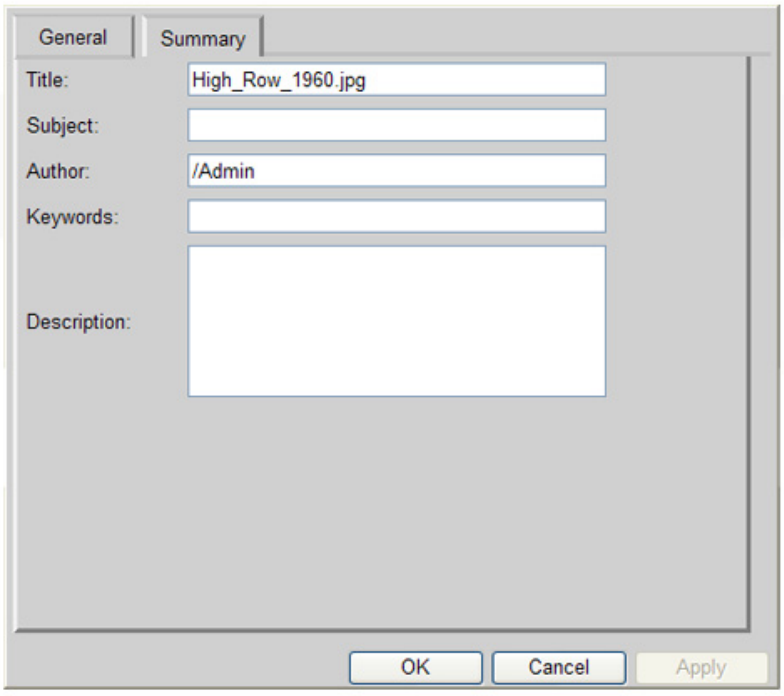


Figure 86 Properties Dialog—Summary Tab

MOS Tab (Figure 87) - The **MOS** tab provides various fields for editing.

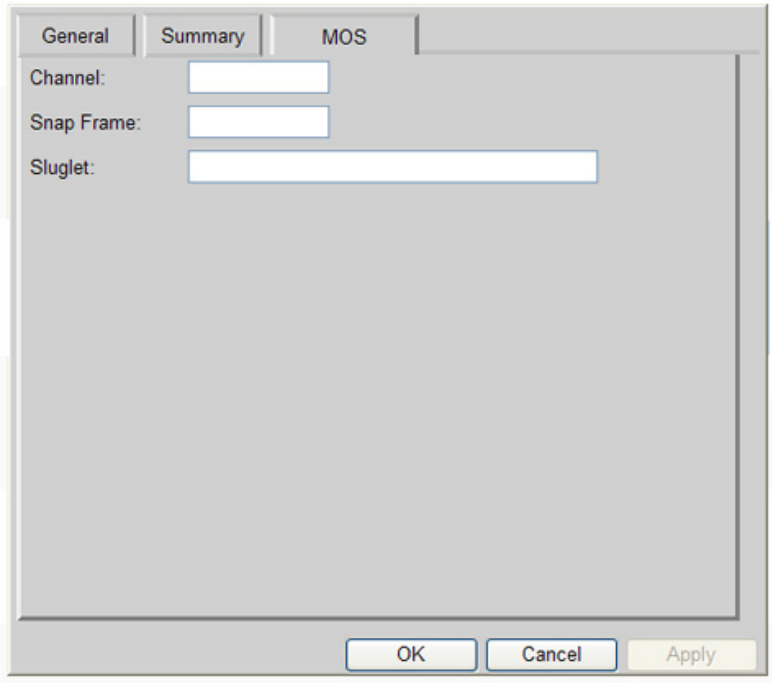


Figure 87 Properties Dialog—MOS Tab

UPLOADING REPLACEMENTS

When an object is uploaded to the CAMIO server using Asset Manager, it is automatically assigned a GUID (Globally Unique ID). If an object is deleted, the GUID is also deleted.

Replacing an Existing Object

If an existing object needs to be replaced, it is best practice to upload a replacement by right clicking on the object and selecting **Upload Replacement** from the context menu (Figure 88).

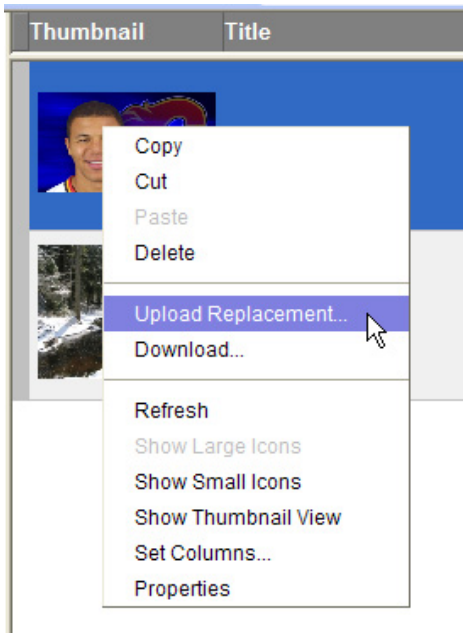


Figure 88 Upload Replacement

The following example should make this clear.

> ***Example**: A new lower third has been created to replace the current lower third. All new and existing LUCI objects should use this new message. You should select **Upload Replacement,** rather than **Delete**. If you delete the old object, then any LUCI objects created from that object will still play out with the old content. Only if **Upload Replacement** is used will all LUCI objects reflect the change.*

Important

If an object is deleted from the Asset Manager, the newsroom should refresh their LUCI browser to ensure that their LUCI browser is not offering any objects that are no longer available. If an image has been deleted from a Context using Asset Manager and LUCI has not been refreshed, it is possible for the newsroom to preview a graphic correctly even if the image no longer exists.

To Replace an Existing Object:

1. Right-click on the object to be replaced.
2. Select **Upload Replacement** from the context menu (Figure 88). A **Drop Replacement File Here** window (Figure 89) appears.

Figure 89 Drop replacement File Here

3. Drag and drop the replacement file onto this window.

CHANGING VIRTUAL ASSIGNMENTS

To do this:

1. Select a **Template**.

2. Right click and select the **MOS** tab from the properties page.

3. Edit the Channel text box.

CHANGING SNAP FRAME

To do this:

1. Select a **Template**.

2. Right click and select the **MOS** tab from the properties page.

3. Select new Snap Frame.

APPENDIX A: INSTALLING CAMIO SOFTWARE UPDATES

INTRODUCTION

On occasion, Chyron will release software updates for the CAMIO software and/or the Lyric software used in the CAMIO MOS System.

Since the CAMIO MOS System will not be operational during the updates, it is important to prepare properly:

- Budget the proper amount of time for the update.
- Back up all files being updated.
- You must have physical access to all the computers affected by the upgrade.
- You must have administrative rights to all the computers.
- Have your license keys handy. Check to see if a new license code or dongle is required.
- Check the interoperability of the new software with other components in the system (i.e. CAMIO version with Lyric and LUCI versions).

You may get the CAMIO and/or Lyric software updates as an Installation CD or as a downloaded file.

CAMIO

Prior to installing new software, stop the CAMIO Service.

To do this, you may do either of the following:

1. In Windows, click on **Start** > **Run**.
2. Enter ***net stop CAMIO*** in the dialog that appears.
3. Click on **OK**.

or

1. In the Windows Control Panel, double-click on **Administrative Tools**. The **Administrative Tools** window opens.
2. Double-click on **Services**. The **Services** window opens.

3. Right-click on **CAMIO** in the list of services. Select **Stop** from the context menu.

To install the software:

1. Make a backup of the CAMIO directory, in case there are any problems with the installation.

    a. Use Windows explorer to locate the **C:\Program Files\Chyron\Camio** folder.

    b. Right-click on the folder and select **Copy** from the context menu.

    c. Right-click in the right explorer pane and select **Paste** from the context menu. A folder called "Copy of CAMIO" will be created. Save this folder until you verify the new installation.

2. Run the installation program. On the first pass select **Remove** from the **Modify, Repair, Remove** dialog box and click "Yes, I want to remove all CAMIO components."

3. Re-run the installation program, entering the CAMIO system username and password. It will not be necessary to re-enter a license key.

4. Re-start the CAMIO Service.

    To do this, you may do either of the following:

    a. In Windows, click on **Start** > **Run**.

    b. Enter ***net start CAMIO*** in the dialog that appears.

    c. Click on **OK**.

or

    a. In the Windows Control Panel, double-click on **Administrative Tools**. The **Administrative Tools** window opens.

    b. Double-click on **Services**. The **Services** window opens.

    c. Right-click on **CAMIO** in the list of services. Select **Start** from the context menu.

Often, when a new version of camio is being installed, Chyron will recommend a specific version of Lyric for use with the new version of CAMIO. Refer to “INSTALLING LYRIC and ASSOCIATED TASKS” on page 10.

MOS XML PLUG-IN

CAMIO software updates usually include new versions of the MOS XML plug-in used in Lyric on the CAMIO server, the Graphics Preparation Workstation, and the Lyric-based Playback machines. For details on installing the XML plugin, refer to “INSTALLING the LYRIC MOS XML PLUG-IN” on page 16.

LUCI MOS ActiveX

CAMIO Software updates usually include a new version of the LUCI MOS ActiveX Control. Since there are usually many Newsroom Client Workstations, updating LUCI can be a big task. Find out if the new CAMIO software is compatible with your current version of LUCI, so you can gradually upgrade the Newsroom Clients rather than doing them all at once.

INSTALLING LUCI

LUCI software can be installed locally at each workstation, or can be installed remotely using Active Directory or PsExec.

BEFORE INSTALLING LUCI

Depending on the security levels of your internet browser, you may need to add the CAMIO server as a trusted site in the Internet settings of your browser. To do this:

1. From the Internet Browser menu, select **Tools>Internet Options**. The **Internet Options** dialog box opens.
2. Select the Security tab. Click on **Trusted sites**.
3. Click on **Sites**. The **Trusted Sites** dialog box is displayed.
4. Enter the following URL: **http://<CAMIO_SERVER>**.
5. Uncheck the **Require sever verification (https) for all sites in this zone** checkbox.
6. Click **Add**.
7. Close the **Trusted sites** and **Internet Options** dialogs.

REMOTE INSTALLATION

1. Log on to the Newsroom client workstation with an administrative account.
2. Go to Installer Web Page **http://camioserver:8080/install.tsp** (where camioserver is the network name of your CAMIO server).
3. Click on LUCI (Chymox ActiveX).
4. Click on **RUN** on the next two dialog boxes to start Install Shield Wizard.
5. Select **Remove** from the "Modify, Repair, Remove" dialog box to remove the old version of LUCI.
6. Select ***No, do not restart computer***, when prompted.
7. Repeat installation steps 3 and 4.
8. Enter your CAMIO server hostname when prompted, and click on **Install**.

LOCAL INSTALLATION

1. Log on to the CAMIO server with the CAMIO Account.

2. Go to Installer Web Page **http://localhost:8080/install.tsp**.

3. Click on **Active Directory** or **PsExec**, and follow the instructions for installing LUCI remotely using.

LYRIC UPDATES

Lyric software updates can be installed independently of CAMIO software updates. The same version of Lyric should be used on the CAMIO server, the Graphics Preparation Workstation, and the Lyric-based Playout machines. There are some exceptions. Call Chyron Customer Service if you have any questions.

Note which directory the new Lyric will install into. By default Lyric usually installs in a directory labeled with the version number. That may or not be the same directory used by the existing version of Lyric.

INSTALLING into the SAME DIRECTORY

- Make a backup copy of the existing Lyric directory as a precaution.
- Install Lyric. See “INSTALLING LYRIC and ASSOCIATED TASKS” on page 10.
- After verifying the new installation, delete the backup copy.

INSTALLING into a DIFFERENT DIRECTORY

- Install Lyric. See “INSTALLING LYRIC and ASSOCIATED TASKS” on page 10.
- Run the new version. It will ask for your license key. On the CAMIO server, this is the same license key used by the CAMIO software.
- Re-install the MOS XML plug-in, using **Install.tsp** link to the CAMIO server. Make sure you install into the correct directory.
- Check the configuration of the MOS XML plug-in, and correct if necessary.
- On the CAMIO server, re-register this new version of Lyric, using the Lyric server Configuration Utility.

APPENDIX B: INSTALLING and CONFIGURING CAMIO SERVER SOFTWARE

INTRODUCTION

CAMIO server Software has already been installed at the factory. This section servers as a guide, in case the software needs to be re-installed.

INSTALLING CAMIO SERVER

GETTING STARTED

Important

Your system must be running Windows Server 2003, Web Edition, to successfully install and run CAMIO server.

1. Configure your network settings.

2. Create a new user in Windows on the CAMIO server computer that has a password and is an administrator that can log on as service. After doing this, check **User Rights Assignment** by selecting **Control Panel>Administrative Tools>Local Security Policy**. Select **Local Policies** then **User Rights Assignments** then Log on as Service. Your user should have Local Policy settings.

INTRODUCTION

The CAMIO server can be installed as either a User Application or as a System Service. It is recommended that CAMIO server be installed as a System Service, because it automatically launches when Windows launches, and does not require that a user be logged on the system. If CAMIO server is installed as a User Application, CAMIO server must be either started manually from a logged-on user session or programmed as part of startup when a user logs on.

When CAMIO server is installed as a System Service, it also includes the ability to run as a User Application.

Instructions for both types of installations, System Service and User Application, are included in the following procedure.

INSTALLING the CAMIO SERVER

To install the CAMIO server:

1. Insert the CAMIO Installation CD into a CD drive. The CAMIO server 2 Installation Utility page should open. If it does open, proceed to step 2. If it does not open, see *Installation Utility Page Does Not Open*, below.

2. Click the Install link below the CAMIO logo.

3. The InstallShield® Wizard starts. Proceed to "CAMIO SETUP" on page 114.

Installation Utility Page Does Not Open

a. From the Windows **Start** menu, select **Run**. The **Run** dialog appears.

b. Type "**<CD Drive Name>:\CAMIO\CAMIO_<version>.exe**" in the **Open** field, where <*CD Drive Name*> is the drive letter assigned to the drive in which the CAMIO Installation CD is inserted, and <*version*> is the version of the software. For example, if the drive letter is "*D*", and the version is 2.0, the string would be typed as *D:\CAMIO\CAMIO_2_0.exe*.

c. Press **OK**. The InstallShield® Wizard starts (Figure 90). Proceed to "CAMIO SETUP" on page 114.

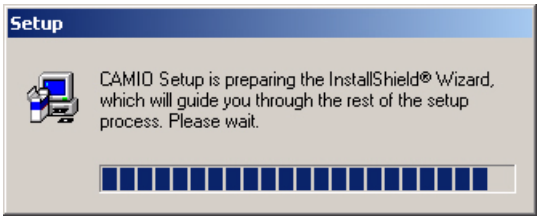


Figure 90 CAMIO Install Wizard Startup

CAMIO SETUP

1. The CAMIO Setup Welcome screen (Figure 91) is displayed. From this point forward, a sequence of dialog boxes guides the installation. Click **Next**.

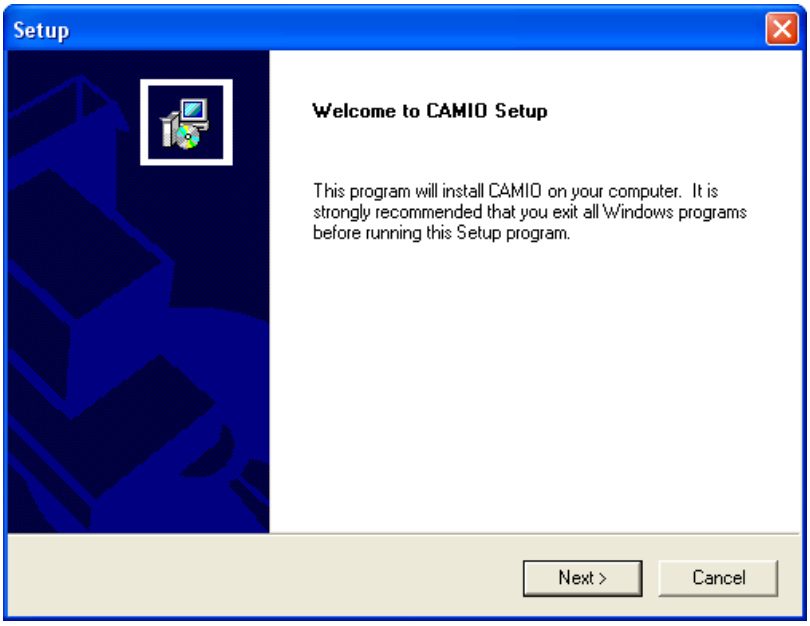


Figure 91 CAMIO Setup Welcome Screen

2. The CAMIO License Agreement (Figure 92) is displayed. Click **Yes** to accept the terms of the license agreement.

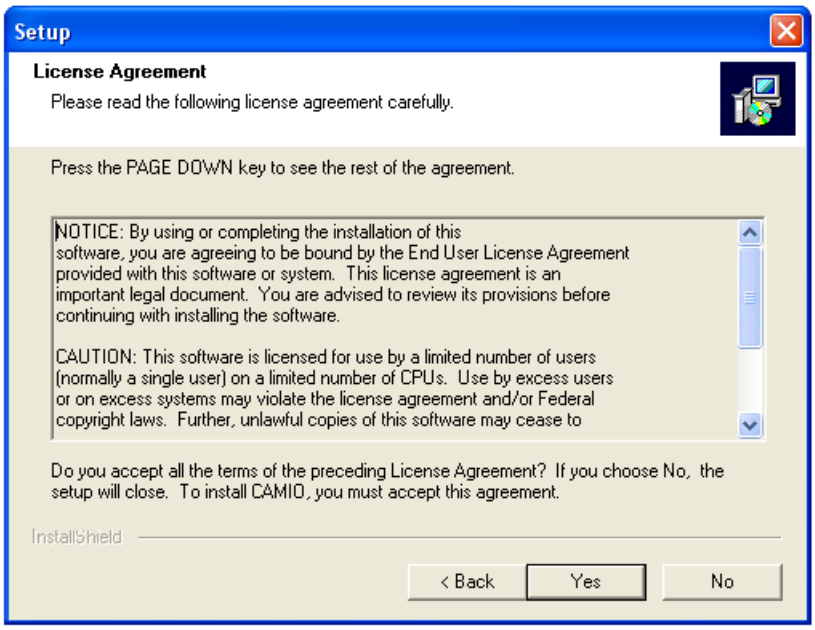


Figure 92 CAMIO License Agreement

3. The **User Information** dialog (Figure 93) is displayed. Enter your name and your companies name**,** then click **Next.**

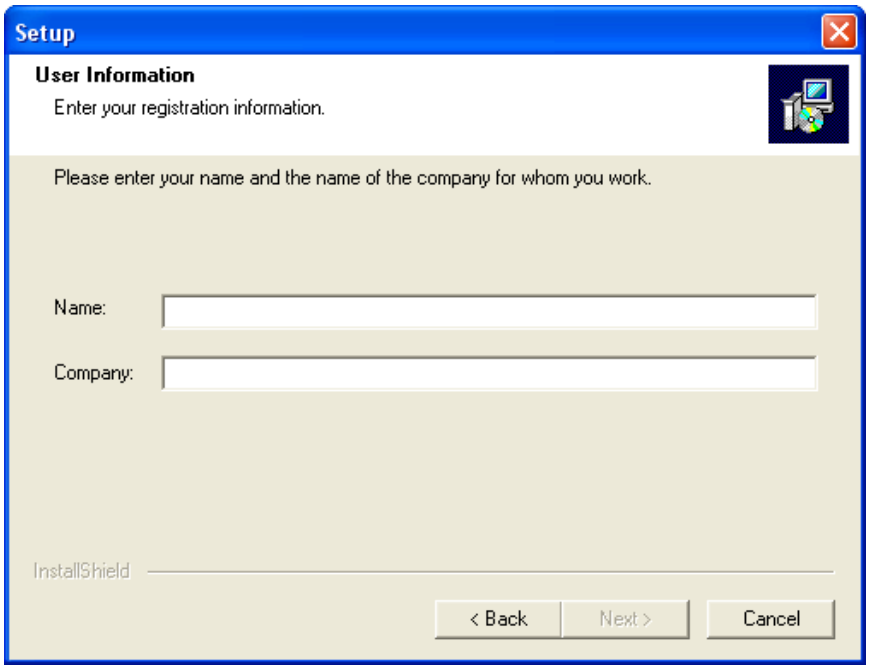


Figure 93 CAMIO User Information Screen

4. The **Choose Destination** dialog box (Figure 94) is displayed. Click **Next** to accept the default destination, or browse to select a new destination. The **Setup Type** dialog box (Figure 95) is displayed.

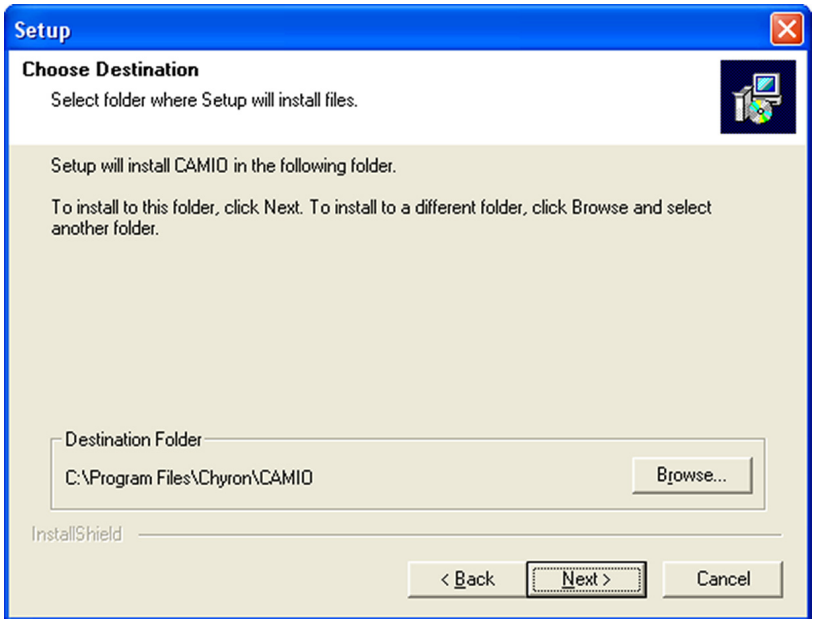


Figure 94 Choose Destination

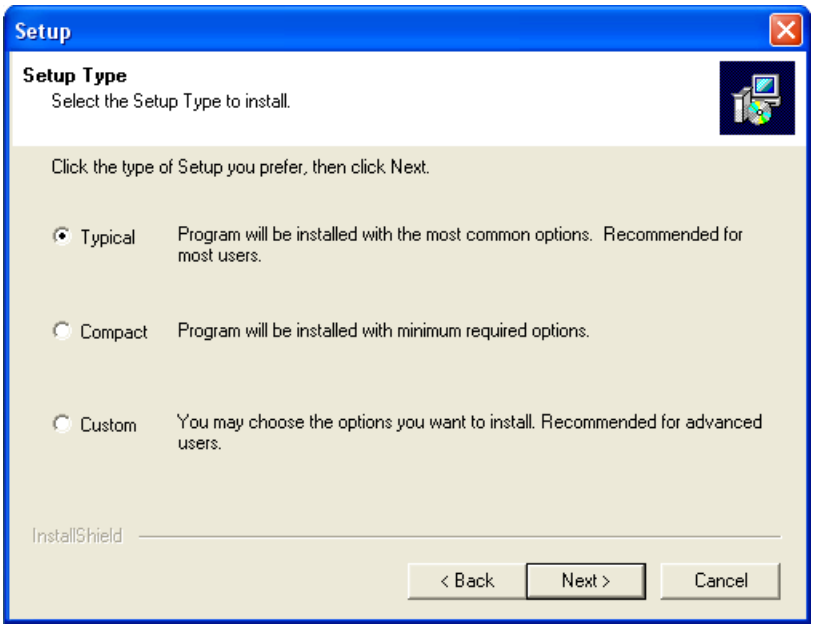


Figure 95 Setup Type

5. Select the setup type to install:

• **Typical** Program is installed with the most common options, and automatically installs CAMIO as a Service. If **Typical** is selected, skip to step 6 on page 117.

• **Compact** Program is installed with minimum required options, and automatically installs CAMIO as a Service, minus Media Codecs, which saves disk space. If **Compact** is selected, skip to step 6 on page 117.

• **Custom** Custom allows for installation of additional components and for installation of CAMIO as a System Service or as an Application. If **Custom** is selected, the **Select Components** dialog box (Figure 96) opens.

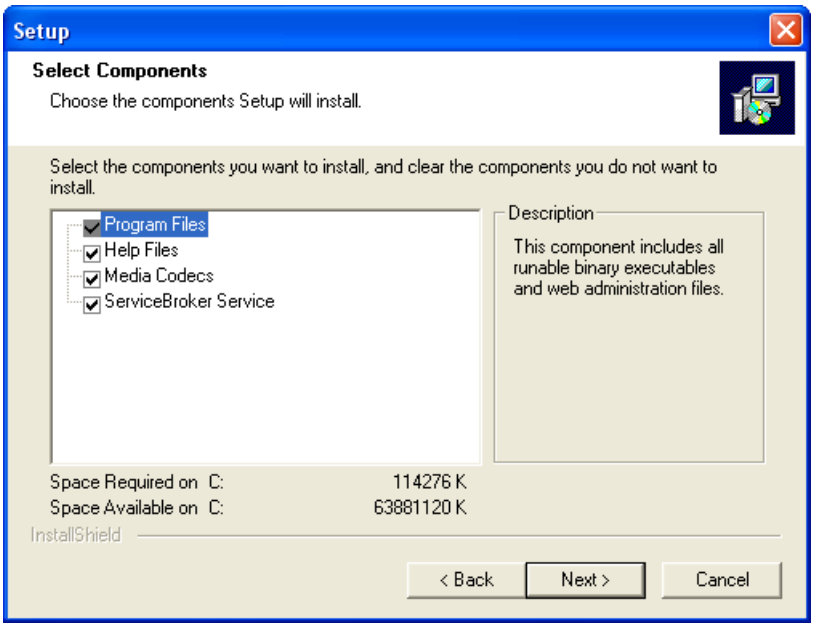


Figure 96 Select Components - Custom Installation Only

The following components can be selected:

• **Program Files** - This component includes all runable binary executables and Web administration files. **Program Files** cannot be deselected.

• **Help Files** - This component includes all Web-based Help documentation.

• **Media Codecs** - These are Media Codecs required by the Asset Manager.

• **ServiceBroker Service** - The Service Broker is installed and registered as a System Service. CAMIO must then be opened and closed from the System Service window. This setting specifies that CAMIO is the specified user when it is launched. Note that if specifying a Windows Domain account, the username must be preceded by the domain name. For example, if the Windows Domain name is *NEWSDOMAIN* and the user account name is *CamioService*, then "*NEWSDOMAIN\CamioService*" must be entered in to the **Username** field. This is not required if the user account is not for a Windows Domain.

6. Click **Next**. The **Select Program Folder** dialog (Figure 97) opens.

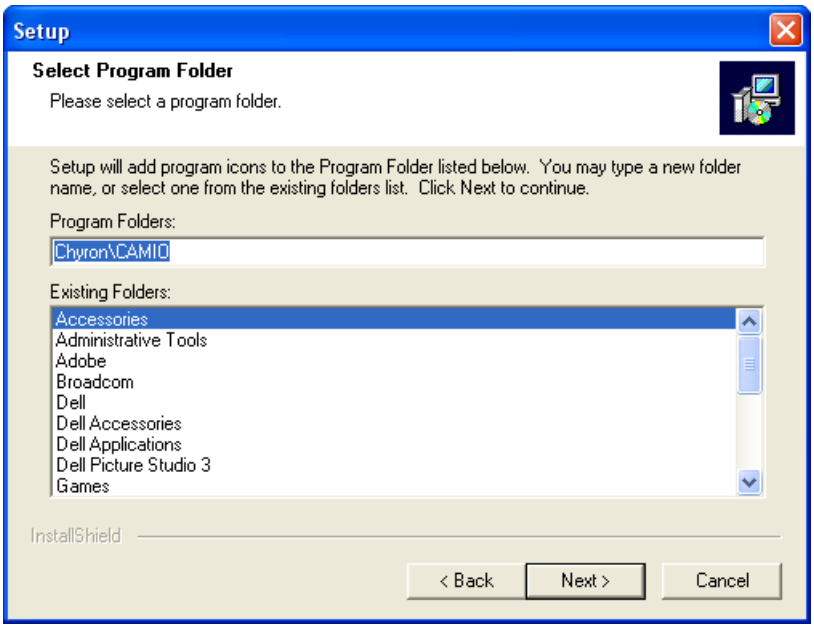


Figure 97 Select Program Folder

7. Select either the default folder or a different folder in which to install **CAMIO**, then click **Next**. CAMIO needs approximately 1 GB of disk space to run. If a Disk Space Prompt is displayed, it is recommended that an alternative drive be selected. Click **Yes** to change drive or **No** to install on the selected drive. Note that if CAMIO is installed on a disk that has less than the recommended available capacity, performance may be compromised.

8. The **Edit Data** dialog box (Figure 98) is displayed.

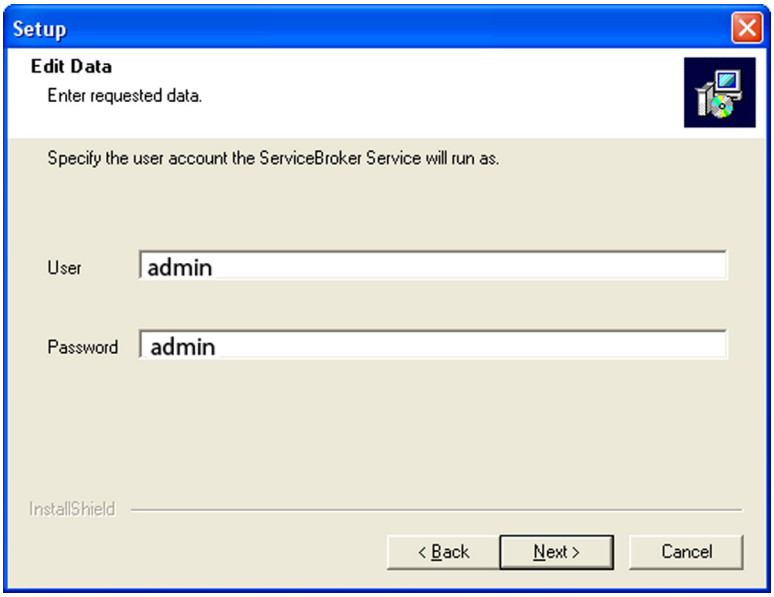


Figure 98 Edit Data Dialog Box

9. Enter the user account that the ServiceBroker will run in the **User** field.

10. Enter the password in the **Password** field. If specifying a Windows Domain account, then the Username must be preceded by the domain name. For example, if the Windows Domain name is NEWSDOMAIN and the user account name is CamioService, then NEWSDOMAIN\CamioService must be entered in to the **User** field. This is not required if the user account is not for a Windows Domain. If an error message is displayed stating that the registration failed, then the ServiceBroker Service should be registered from a command prompt. To do this:

- Click **Start > Run**, and then execute **cmd.exe**.
- Change directory (**cd** command) to the CAMIO Installation Directory, and then execute **Servicebroker.exe –service –user <USERNAME> –pw <PASSWORD>**, where **<USERNAME>** is the user account name and **<PASSWORD>** is the password associated with the specified user account.

-pw <PASSWORD> can be left out if the specified account has a blank password.

11. If a Couldn't create service message is displayed, make sure that the user has the right to log on as a service. *For information on granting this right, refer to **Granting a User or Group the Right to "Log on as a service"** in the section on **Running CAMIO Server.***

12. The **Start Copying Files** dialog box (Figure 99) is displayed.

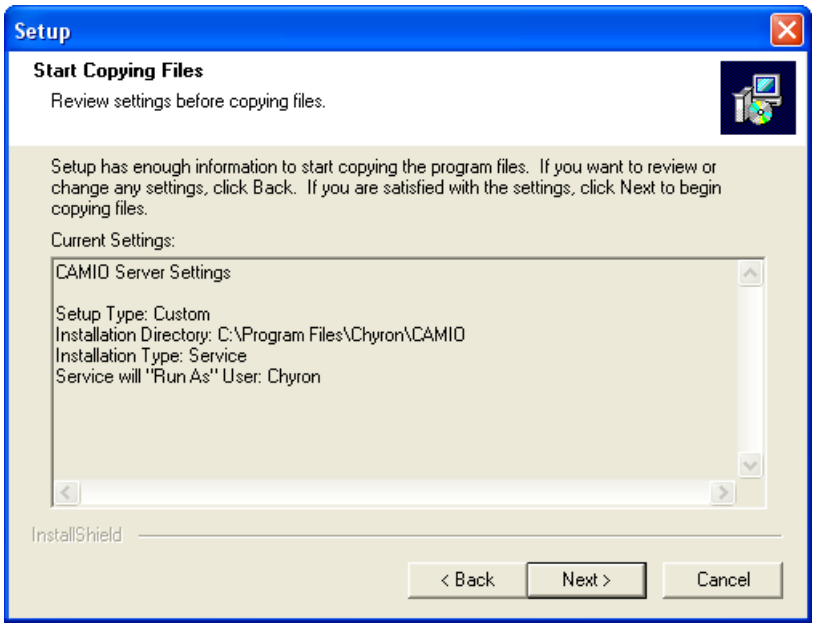


Figure 99 Start Copying Files Dialog

13. Review the setup settings. If they need modification, click **Back** to navigate back to the earlier dialog boxes to make the changes. If the settings are satisfactory, click **Next**. Installation starts and progress is displayed.

During the installation, a dialog box may be displayed asking permission to overwrite the files *setup.exe* and *setup.ini*. Click **Yes** for each of these files.

14. When installation is complete, the **Setup Complete** dialog box (Figure 100) is displayed. Note that the **Start ServiceBroker now?** checkbox does not appear if installing as only a User Application or if modifying a previously installed version as a System Service. If the checkbox does not appear, skip to step 15.

- If the specified user has been granted the right to "**Log on as a service**" in the Local Security Policy, check the **Start ServiceBroker now?** checkbox, to start the Service Broker immediately following the completion of the installation, or leave the checkbox deselected (unchecked) to start the Service Broker at a later time.
- Leave the **Start ServiceBroker now?** checkbox deselected (unchecked) if the specified user has not been granted the right to "Log on as a service" in the Local Security Policy.

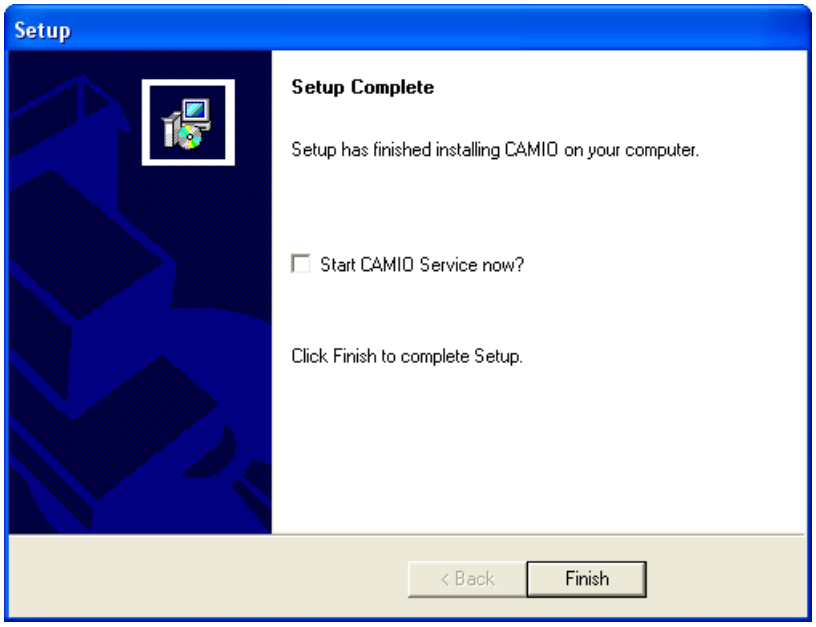


Figure 100 Setup Complete

15. Click **Finish**. If there had been a previous installation of CAMIO, or if certain files were overwritten during installation, the **Setup Complete** dialog box may also prompt to reboot

the system before running CAMIO. Click **Yes** to reboot immediately, or **No** to postpone the reboot operation

16. To confirm that the ServiceBroker server has been installed and is available as a service:

    a. Open the Window's Control Panel.

    b. Double-click on Administrative Tools.

    c. Double-click on Services. The **Services** dialog opens.

    d. Verify that ServiceBroker is in the list of services and has started. if it has not started:

    - Locate CAMIO in the list of Service names and right-click on it. A context menu appears. Click on **Properties**. The **CAMIO Properties (Local Computer)** dialog appears.
    - Click on the **Log On** tab.
    - Enter your User Name. Use the Browse function to locate your User Name.
    - Enter your password in the **Password** and **Confirm password** fields.
    - Click on **OK**.

SETTING the LICENSE CODE

After CAMIO server has been installed, the following setups must be performed.

To use CAMIO server, the **License Code** must be entered:

1. In a Web browser, go to http://<camio server name>:8080/CAMIO/Diagnostics/license.tsp, where <camio server name> is the name or IP Address of the CAMIO server.

2. If prompted, enter the User (default: **Admin**) and Password (default: **Admin**). Otherwise, continue to the next step.

The **CAMIO Licensing Manager** page (Figure 101) is displayed.

Figure 101 CAMIO Licensing Manager

3. Enter the License Key provided by Chyron, and then click **Install License Key**. The CAMIO server is now activated.

REGISTER CAMIO SERVER with the NEWSROOM SYSTEMS

The ENPS or iNEWS newsroom system must be installed before registering the CAMIO server. The CAMIO server must then be registered with the newsroom system in order for it to be recognized as a MOS system.

ENPS

To configure the CAMIO server to be recognized as a MOS server in ENPS:

1. Connect to an existing ENPS client as a privileged user.

2. In any ENPS client application, click the **Corporate Folder** rover, select **System Maintenance**, and then select **MOS Configuration**. The **MOS Configuration** window is displayed. Access **System Maintenance** may be restricted depending on administrative privileges.

3. Click **New**, then enter the following CAMIO server specifications. All other settings should be left blank.

ID	Host name of the CAMIO server; e.g., **CAMIOSERVER**
Description	Host name of the CAMIO server; e.g., **CAMIOSERVER**
IP	IP Address of the CAMIO server; e.g., **192.168.110.130**
ActiveX	chymox.AssetBrowser.1
Program	Group name created in ENPS for the Chyron users.
Local DragDrop	**Off**

4. When complete, click **Save**. The CAMIO server is now registered with ENPS.

5. Restart the **ENPS** application.

iNEWS

To configure the CAMIO server to be recognized as a MOS server in iNEWS:

1. On the iNEWS Gateway server, locate the file *mosconfig.xml*. Add a new **<mosDevice>** tag with values that reflect the new CAMIO installation. *Refer to the **INEWS MOS Configuration** guidelines provided with the iNEWS software.*

2. In any iNEWS client application, open the **System** folder, then edit **MAP** and **MOS-MAP**.

The **System** folder is visible only if the user has administrative privileges.

CAMIO SERVER SETUP

Perform the following setups within **CAMIO Server Administration**.

- Set up **CAMIO MOS Administration** to configure the systems with which **CAMIO Server** is to communicate. See “CAMIO MOS MANAGEMENT” on page 46.
- Set up a **Context** in **CAMIO Context Administration**. See “CAMIO Context Manager” on page 64.
- Set up a user in **CAMIO User Administration** and give the user access to the **Context**. See “CAMIO USER MANAGEMENT” on page 70.
- Set up recognized file formats in **CAMIO Mime Type Administration**.

Additional **CAMIO Administration** setups can be performed later in the setup process.

INSTALLING the SQL DATABASE ENGINE (MSDE)

CAMIO now uses SQL databases for LUCI assets not Access databases (MDB format). Therefore, databases will not be created in Lyric where they would automatically take the MDB format.

To install the SQL Database engine (MSDE):

a. If you don't already have the install file, you can find it on the Microsoft Website at: **http://www.microsoft.com/sql/msde/downloads/default.asp**.

b. Once at the website, click **Download MSDE 2000 Release A**.

c. Select a Language from the drop-down list, and click **GO.**

d. At the bottom of page, under the heading **Files in This Download**, click on **MSDE2000A.exe**. The **File Download** dialog appears.

e. Click **Run**. After the file has downloaded, unzip contents to **C:/MDSERelA**.

f. In **C:/MDSERelA** go to the **setup.ini** file and enter the following after the line [options].

SAPWD="<password of Administrator user that CAMIO logs in as>"

g. Double-click on setup.exe to install.

h. Once installed you will see a new icon for SQL at the lower right corner of the desktop near the clock. Open this and press the start button. This should automatically start on a system restart.

INSTALLING LYRIC

Install Lyric. See “INSTALLING LYRIC and ASSOCIATED TASKS” on page 10.

REGISTERING LYRIC as a SERVER

This step is required if CAMIO is running as a System Service or as a User Application and you do not wish to manually start Lyric.

It is recommended that Lyric is registered as a server to minimize interruption with LUCI Previews. This is because Lyric will automatically load when required by LUCI if it is not already running.

Close all instances of Lyric before continuing.

1. Start the Lyric Server Configuration Utility (Figure 102) by selecting **Start>Programs>Chyron>Camio>Lyric Server Configuration Utility**.

Figure 102 Lyric Server Configuration Utility

2. Click **Register Lyric.** The **Open** dialog box appears (Figure 103).

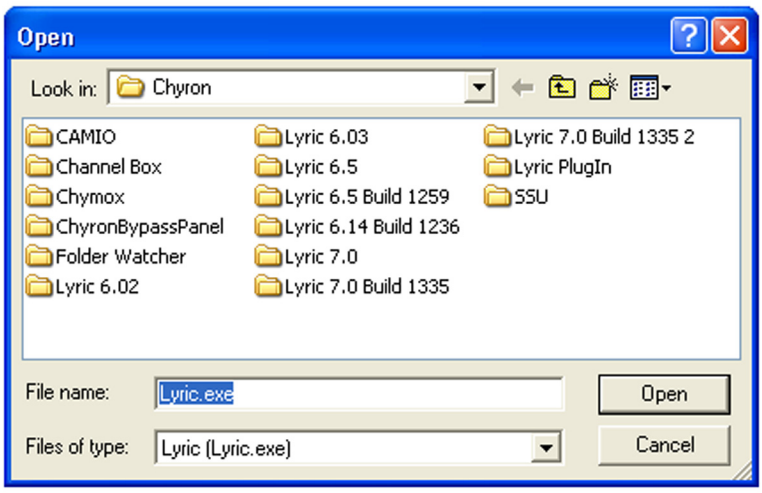


Figure 103 Open Dialog

3. Use the **Look in** drop-down list box (Figure 104) to navigate to **c:\program files\chyron\lyric 7.0**, containing the executable **Lyric.exe**.

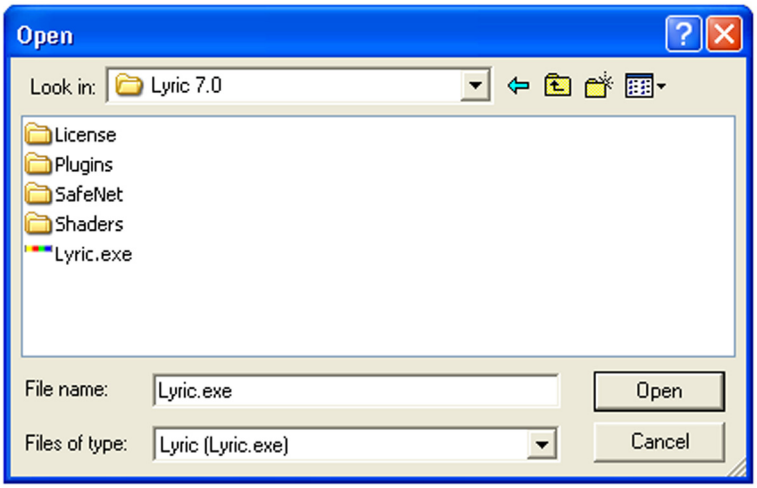


Figure 104 Lyric Executable

4. Click the **Open** button, the **ServerConfig** dialog box (Figure 105) appears.

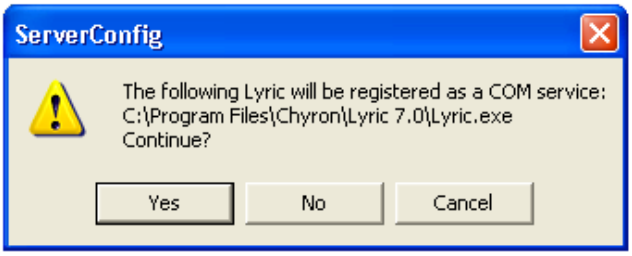


Figure 105 ServerConfig

5. Click **Yes**.

6. A dialog box (Figure 106) appears indicating that the Lyric plug-in was successfully registered. Click **OK**, to complete the registration.

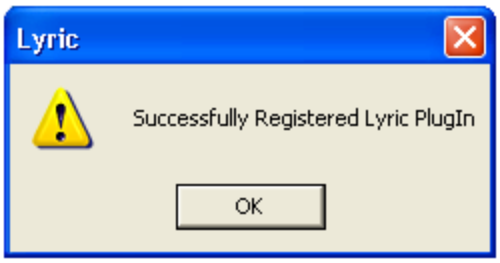


Figure 106 Successfully Registered Lyric Plug-In

7. Start Lyric. Set the XML Export parameters. See “INSTALLING the NEW ASSET MANAGER” on page 19.

INSTALLING LUCI

Install LUCI. See “LUCI INSTALLATION” on page 8.

FINISHING UP

- Uninstall the **IE Enhanced security measures** entry.

  To do this:

  1. Open the Windows **Control Panel**. Double-click on **Add or Remove Programs**. The **Add or Remove Programs** dialog displays.

  2. In the **Add or Remove Programs** dialog left panel, click on the **Add/Remove Windows Components** icon. The **Windows Components Wizard** opens.

  3. Uncheck the **IE Enhanced security measures** entry.

- Install all the fonts on the CD (that comes with Lyric-based systems) to the Windows **Fonts** directory located on the CAMIO server.

APPENDIX C: GLOSSARY

Term	Meaning
Context	A Context is a group of templates and images that are used on a show or group of shows. Contexts are created and assigned specific playback hardware channels using the AdminTool Contexts menu.
Groups	Groups make it easier to manage access rights to large numbers of users.
LUCI	Lyric Universal Control Interface
Lyric Message	A Lyric message is a **Template Data Message**.
MOS Object	A **MOS object** consists of a **Template Data Message** and metadata.
Template	A **Template's** technical name is **Template Description Message**. The **Template Description Message** is a Lyric message that contains **2D Text Template** fields and/or **2D Object** (Image) **Template** fields. **Template Description Messages** act as templates on which customized graphics can be quickly created on remote PCs and sent for playout on a Lyric-based system.
Template Data Message	Created from templates (**Template Description Messages**), a **Template Data Message** is a Lyric message that specifies text that is to populate specified **2D Text Template** fields and/or 2D objects (images) that are to populate specified 2D Object Templates, as well as data specifying an association with a **Template Description Message**. When the **Template Data Message** is recalled (read), the associated **Template Description Message** is displayed. Its **2D Text Template** fields display the text specified in the **Template Data Message**., as well as the 2D objects (images) specified in the **Template Data Message**.
Trustee	A Trustee is a **Group** that has access rights to a Context.
Users	CAMIO keeps a list of users that require access to LUCI via the newsroom computer system.

NOTES:

APPENDIX D: CHANNEL ASSIGNMENTS for LYRIC TEMPLATES in CAMIO

Lyric templates used in the CAMIO MOS System can be assigned default channel assignments that control how they play back to air.

This feature is provided because it is common for different types of graphics to playback from different channels in news production. For instance, lower-third name supers would play out of channel 1, while over-the-shoulder graphics would play out of channel 2. Sometimes graphics are played out of monitors on the back wall of the set, and these may be played back on channel 3, etc.

VIRTUAL CHANNEL vs. PHYSICAL CHANNEL

The Lyric **Template** is assigned a virtual channel value (A, B, C or D, for example) An unassigned template has the virtual channel assignment **"*"**.

In CAMIO Admin Tools, the administrator must create a lookup table that assigns physical channels on a specific playout machine to correspond with each virtual channel used by the templates. That is what determines which channel and playout machine a template will play to. See “ASSIGNING VIRTUAL CHANNELS” on page 66.

ASSIGNING VIRTUAL CHANNELS in LYRIC

To assign virtual channels:

1. Right click on **Global Light** in the Scene Graph.
2. Select **MOS**. This bring up the MOS properties menu.
3. Select the **Technical Info** tab and enter the virtual channel assignment (e.g., A, B, C or D) into the Channel Text box.
4. Click **OK** and **Save**.

Important

Lyric must have the XML plug in installed in the plug-ins directory.

OVERRIDING VIRTUAL ASSIGNMENTS of MOS OBJECTS IN LUCI

It is possible to override the virtual channel assignment of the **Template** when creating a **MOS Object** in LUCI, either before inserting the object or by editing it. This only changes the channel assignment of that one **MOS Object**, it does not change the channel assignment of the **Template Description Message** itself.

To override the virtual channel assignment:

1. Right click on the right hand pane in LUCI.
2. Select **Channel**. The current channel assignment will display in the drop-down box. A blank current channel assignment means that the channel is unassigned.

3. Select the channel assignment you want from the drop-down box.

CHANGING VIRTUAL ASSIGNEMENTS in ASSET MANAGER

It is possible to change the virtual channel assignment of the templates in Asset Manager.

See “CHANGING VIRTUAL ASSIGNMENTS” on page 107.

APPENDIX E: RESTORING from a BACKUP FILE

INTRODUCTION

CAMIO is set by default to run a **dir_backup** script every night at 1.30 am. This action will copy all the settings of the **sb.stg** and will enable an administrator to restore **stg** setting should something become corrupted.

The backup files are stored in the **c:\program files\chyron\camio\bak** folder and are named in the format **[year.month.day.hour.minute.second].xml**, where each of the values is in a two digit format.

For example:

05.12.31.01.30.00.xml

is December 31st, 2005 at 1.30 am).

EDITING CURRENT MESSAGE NUMBER

The restore process changes the working values of the CAMIO server to those values existing at the time the backup file was generated. When restoring, be aware that the Current Context Message Number in the backup file may not be the last message number used by that context when generating MOS Objects, since graphics may have been created after the backup file was generated. The backup file must be edited, to ensure that when it is restored, it will start generating messages at an appropriate number.

Edit the backup file, to ensure that when it is restored, it will start generating messages at an appropriate number.

To edit the backup file (to change the context message number), follow these steps:

1. Locate the .XML backup file you wish to restore to in the **c:\program files\chyron\camio\bak** directory.

2. Find the part of the XML code that has the following information. This example is for a context called BBTEST.

You will have to edit this for each context in the CAMIO server.

```
</bmml:resource>
        <bmml:resource name="object119" xsi:type="dir:object" object="BBTEST" parent="/CAMIO/Contexts" schema="ResourceContext" uuid="5B1A7BB9-736F-4A77-B8B7-5E10E255368E">
            <bmml:properties namespace=""/>
            <dir:property property="Host"/>
            <dir:property property="SocketPort">0</dir:property>
            <dir:property property="VolumePath"/>
            <dir:property property="Title">BBTEST</dir:property>
            <dir:property
 property="MainVolumePath">c:\CAMIO\BBTEST</dir:property>
            <dir:property property="DataSource">dsn://BBTEST</dir:property>
            <dir:property property="RunningOrder"/>
            <dir:property property="CompositionType">lyric/data</dir:property>
            <dir:property property="Style">Basic</dir:property>
            <dir:property property="Enabled">1</dir:property>
          <dir:property property="ObjectCount">50001</dir:property>
          </bmml:resource>
```

The number of the Current Message Number is located after this code:

<dir:property property="ObjectCount">

3. Change the message number to a number clear of any objects that may have been generated since the backup file was created.

4. Resave the XML file.

PERFORMING RESTORE from BACKUP FILE

To perform a restore from a backup file, perform the following steps:

1. Stop the CAMIO service from the **Control Panel>Administrative Tools>Services** window.

2. Delete the current **sb.stg**.

3. Copy the backup file you wish to use to the **servicebroker.exe** directory (c:\program files\chyron\camio).

4. In the command prompt, navigate to the Servicebroker.exe path (c:\program files\chyron\camio).

5. Type in **servicebroker.exe -r [name of backup file]**.

6. Press **Enter** and the service will be restarted using the XML backup file. It will show the process in the command prompt window. The process may take several minutes.

7. Once you see **System ready**, you can close the command prompt window and restart CAMIO from the **Services** window.

APPENDIX F: CAMIO ASSET MANAGER (legacy)

OVERVIEW

The Asset Manager is a powerful tool in CAMIO for managing graphics and Lyric templates (also referred to as assets). It can be used as part of the MOS newsroom system for managing MOS assets or for management and distribution of assets independent of a MOS newsroom system.

The Asset Manager allows users to browse and manage graphics both locally and remotely on CAMIO connected systems. Assets can be viewed, sorted, edited, copied, deleted, and downloaded. A virtual folder hierarchy enables simple, yet sophisticated organization.

GETTING STARTED

If you have not already done so, install the Asset Manager.

INSTALLING ASSET MANAGER

To install Asset Manager:

1. Open Internet Explorer.

2. Enter the following URL: **http://<*CAMIO_SERVER*>:8080/CAMIO/AssetManager.html** (8080 is the data connection port used by CAMIO and **<*CAMIO_SERVER*>** is the name of the Chyron MOS server).

INSTALLING JAVA

Before installing JAVA, check If there is an older version of Java installed on the client PC, remove it, to ensure that the proper version is loaded.

To do this:

1. Open the Windows **Control Panel**. Double-click on **Add or Remove Programs**. The **Add or Remove Programs** dialog displays.

2. Check that the version of the Java Runtime currently installed is **J2SE Runtime Environment 6.0 or higher (Java 1.5 for Mac)**. If it is not, remove it.

3. From the client workstation, log on to the CAMIO Server from Internet Explorer using the URL: **http://*camioserver*:8080/CAMIO/AssetManager.html** (8080 is the data connection port used by CAMIO and ***camioserver*** is the name of the Chyron MOS server). The CAMIO Server automatically loads the Java Runtime.

SETTING JAVA POLICY

1. Double-click on the Java Policy Tool (**policytool.exe**) located in **C:\program files\java\<version number>\bin**. The Policy Tool (Figure 107) is displayed.

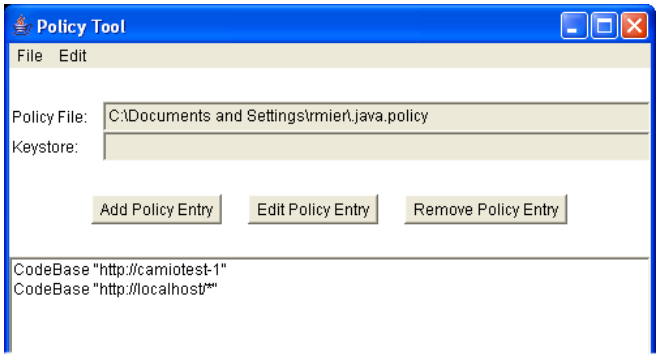


Figure 107 Java Policy Tool

2. Click **Add Policy Entry**. The **Policy Entry** dialog (Figure 108) appears.

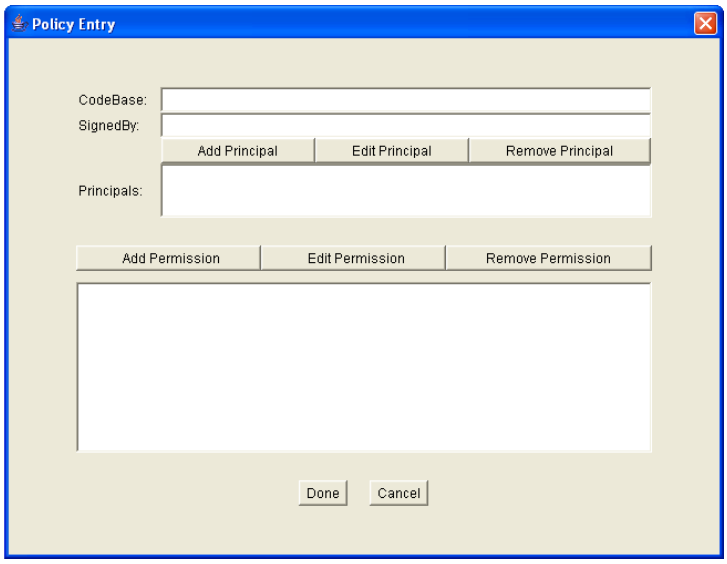


Figure 108 Policy Entry Dialog

3. In the **CodeBase** input field, enter **http://<CAMIO_SERVER>/*** (where <CAMIO_SERVER> is the network name of the camio server).

4. Click on **Add Permission**. From the Permission drop-down list (Figure 109), select **All Permissions.**

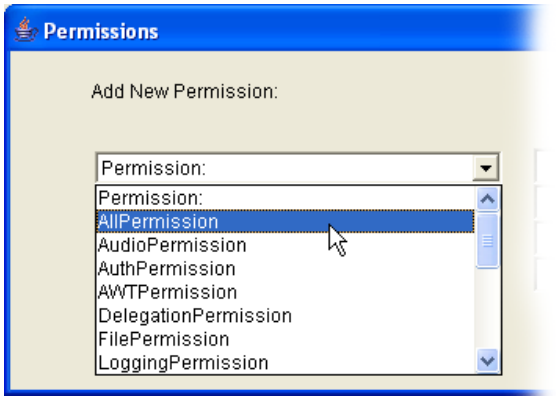


Figure 109 Permission Drop-down List

5. Click **OK**, to close the **Permissions** dialog.

6. Click **Done**, to close the **Policy Entry** dialog.

7. Repeat steps 2 through 6, entering **http://localhost/*** in the **CodeBase** input field in step 3 (Repeating these steps for localhost only needs to be done when installing Asset Manager on the CAMIO Server).

8. From the Policy Tool **File** menu, select **Save As**. The **Save As** dialog is displayed.

Save this file as ***.java.policy*** (remember the period in front of java) in the **c:\documents and settings\<your login>** folder. **<your login>** is the username that Windows is logged in as.

CONNECTING to a LOCAL HOST (from the CAMIO server)

The Service Broker must be running, to access the Asset Manager.

1. Open a Web browser.

2. Enter the following URL: **http://localhost:8080/CAMIO/assetmanager.html** (8080 is the data connection port used by CAMIO), or click on **Start>All Programs>Chyron>Camio>Asset Manager**.

3. Click **Enter** or **Go**. To Open the Login Window click on **Open System**; the Login window is displayed (Figure 110).

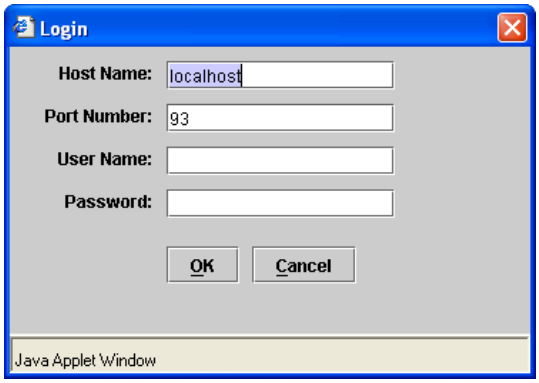


Figure 110 CAMIO Asset Manager Login Window

4. Enter the CAMIO server name (or localhost if opening Asset Manager from the CAMIO server), a user name, and password.

5. Click **OK**. The Asset Manager is displayed (Figure 111).

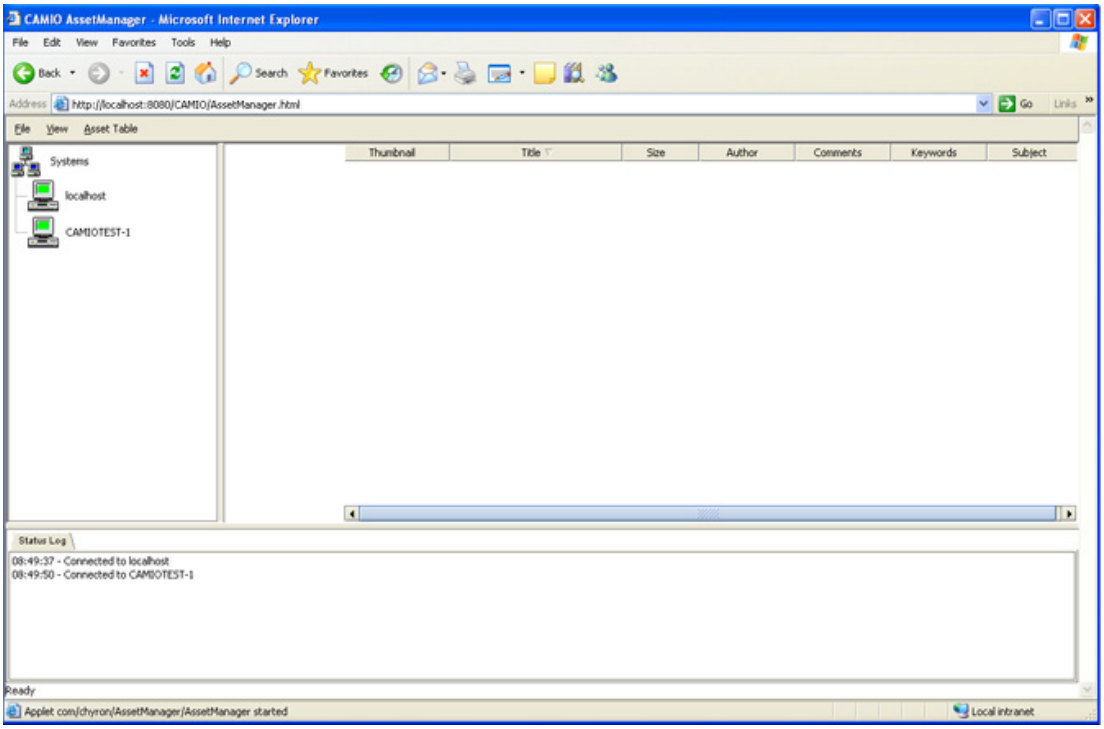


Figure 111 CAMIO Asset Manager

CONNECTING to a REMOTE HOST (from a remote computer)

The Asset Manager can be accessed using a URL that contains either the System Name or IP Address, as shown below:

http://<CAMIO_Server>:8080/Camio/assetmanager.html

or

http://<IP address>:8080/Camio/assetmanager.html

For example, the following URLs for the server CAMIO-R1 with an IP Address of 10.10.2.204 would be valid:

http://camio-r1:8080/Camio/assetmanager.html

http://10.10.2.204:8080/Camio/assetmanager.html

ASSET MANAGER INTERFACE

The Asset Manager Interface (Figure 112) consists of the following components:

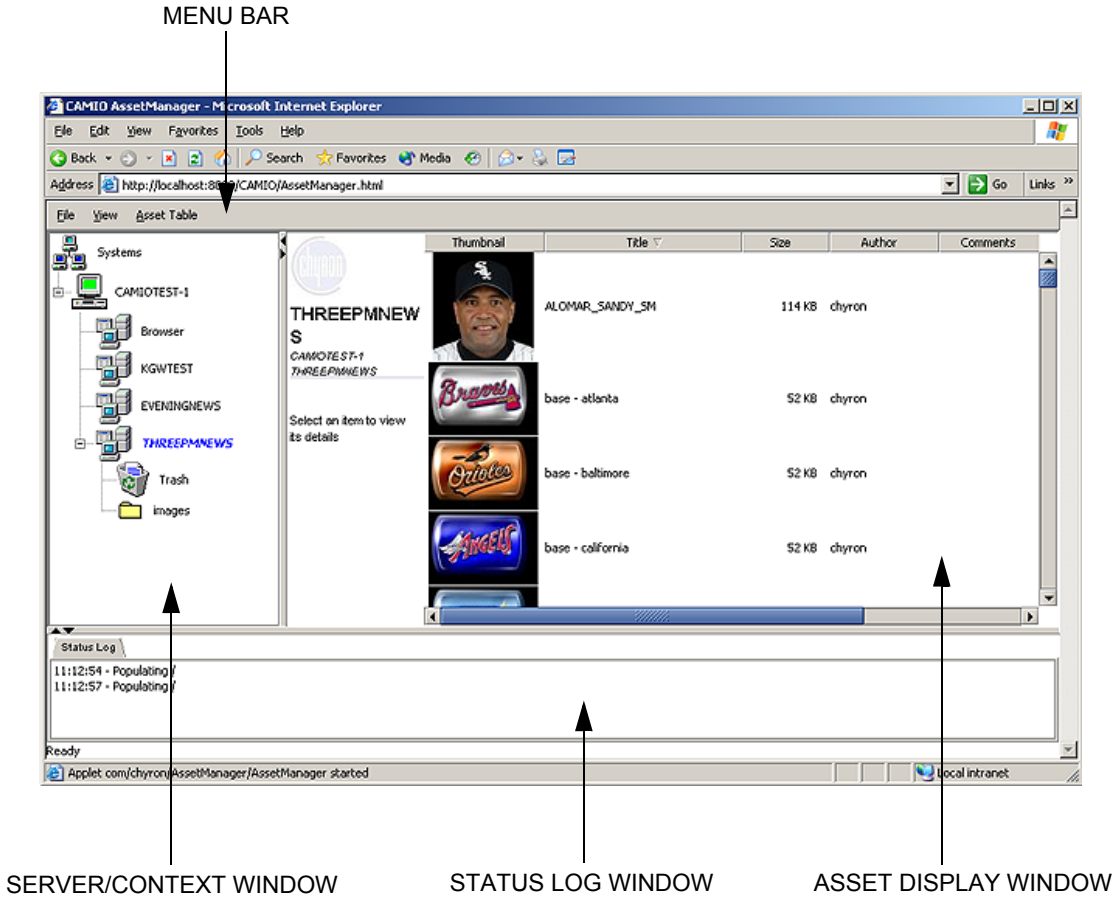


Figure 112 ASSET MANAGER INTERFACE

Menu Bar - descriptions of the menus are provided below.

File Menu (Figure 113)

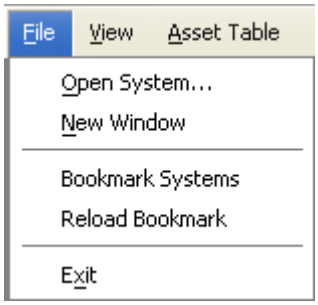
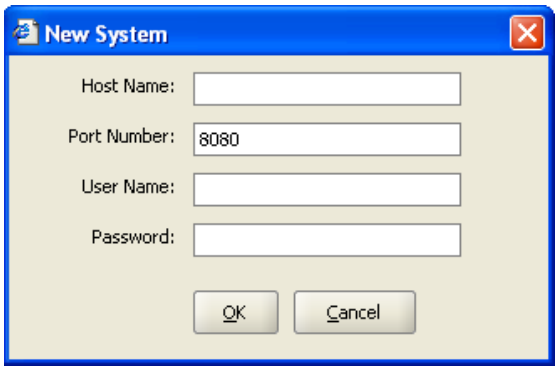


Figure 113 File Menu

Open System...	Displays the **New System** dialog, when selected. Enter a CAMIO server **Host Name**, **User Name**, and **Password, then** Click **OK**. to connect to a new system. 
New Window	Opens a new window, when selected.
Bookmark System	Remembers systems currently connected. When Asset Manager is next opened,
Reload Bookmark	Reloads the bookmark.
Exit	Select to exit Asset Manager.

View Menu (Figure 114)

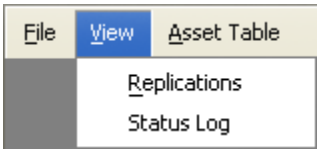


Figure 114 View Menu

Replications	Displays the replications window that displays all replications on the connected servers.
Status Log	Displays the Status Log.

Asset Table Menu (Figure 115)

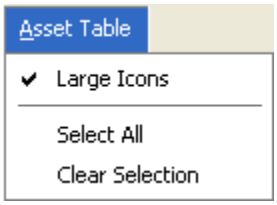


Figure 115 Asset Table Menu

Large Icons	Click to display large icons.
Select All	Click to select all items.
Clear Selection	Click to clear selected items.

Server/Context Window (Figure 116) - displays the various servers on the system, Context icons, and any Context sub-folders.

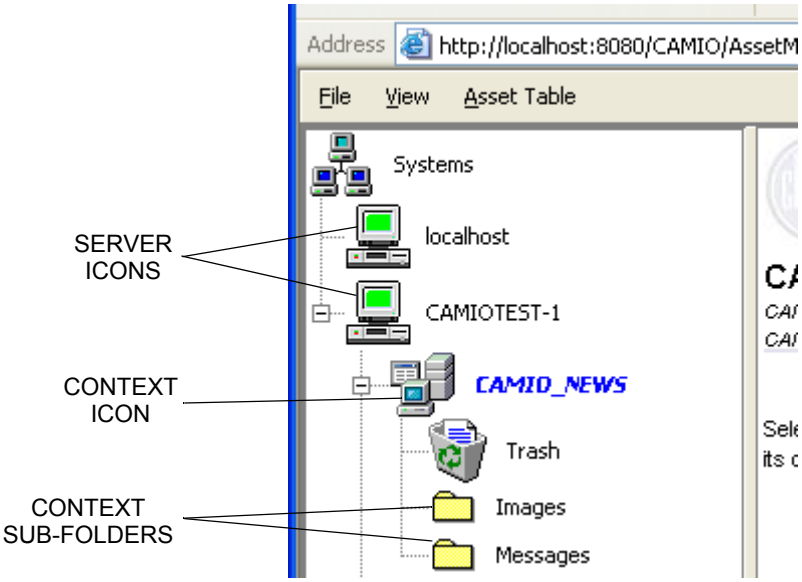


Figure 116 Server/Context Window

Asset Display Window - displays Context assets.

Status Log Window - displays the status log. A plus sign to the left of the Context icon indicates that there are sub-folders in that Context. Clicking on the plus sign will expand the view and allow you to browse the sub-folders.

Using Context sub-folders provides a convenient way to organize different types of assets within a Context. The recommended folder hierarchy, shown below, matches the Lyric browser hierarchy.

- messages
- images
- XClyps
- videos

WORKING in ASSET MANAGER

ENTERING ASSETS

ENTERING ASSETS ONE at a TIME

Any file type can be entered in Asset Manager. Simply drag and drop the file into the Asset Display window. The **New Asset Details** dialog (Figure 117) is displayed. Use this dialog to enter meaningful metadata about the asset in the **Subject**, **Keywords**, and **Comments** fields. When done entering metadata, click on **Upload**. The new asset is then uploaded to the Asset Manager, and a thumbnail image of the asset is displayed in the Asset Display window, along with the accompanying metadata.

Important

It is important that meaningful metadata is entered to facilitate searching the asset database at a later time. Asset Manager has a search tool that allows you to search for files using this metadata. The metadata is also used by the newsroom to conduct searches in LUCI.

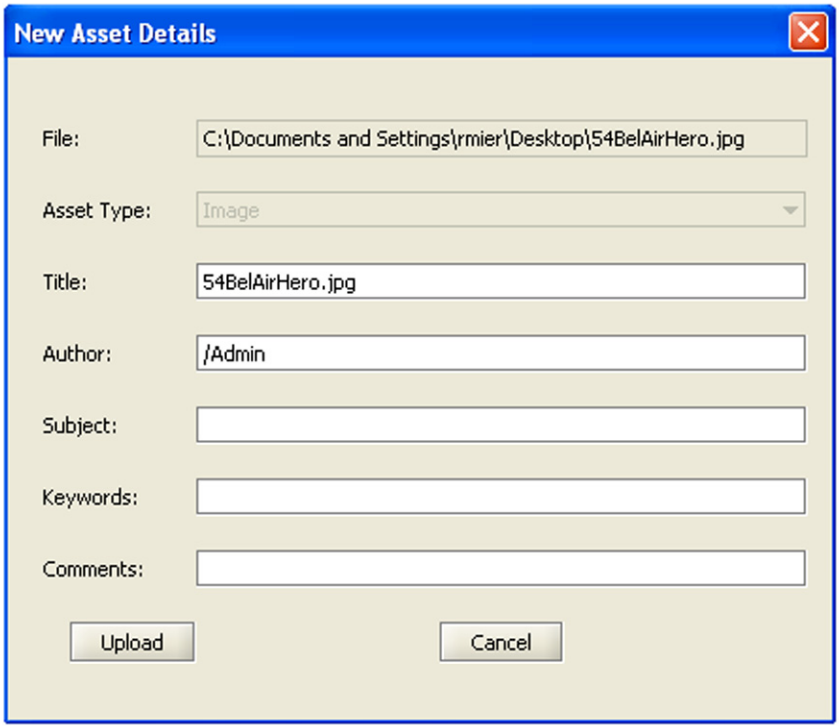


Figure 117 New Asset Details Dialog

ENTERING MORE THAN ONE ASSET at a TIME

Simply drag and drop the selected files onto the Asset Display window (Figure 118).

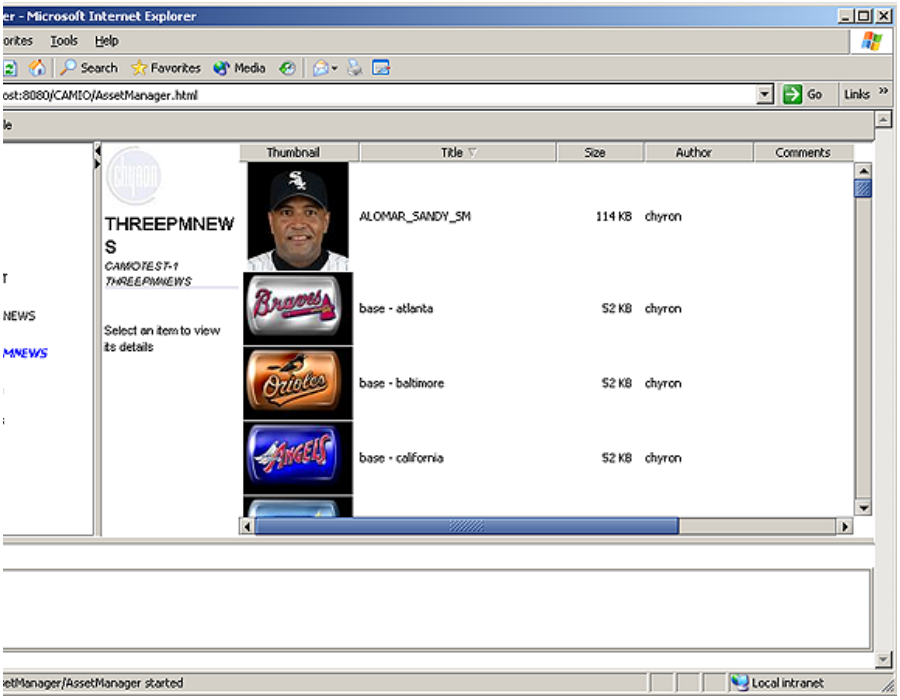


Figure 118 Asset Display Window

The **New Asset Details** dialog (Figure 119 on page 144) is displayed. Use this dialog to enter meaningful metadata about the assets in the **Subject**, **Keywords**, and **Comments** fields.

See “ASSET FORMATTING” on page 57 for a listing of format strings you can use.

Selecting the **Use As Template For All Files** checkbox applies the metadata you enter to all selected files. Leaving **Use As Template For All Files** unchecked, allows you to enter metadata separately for each of the selected files.

When done entering metadata, click on **Upload**. The new assets are then uploaded to the Asset Manager. A thumbnail image of each asset is displayed in the Asset Display window along with the accompanying metadata.

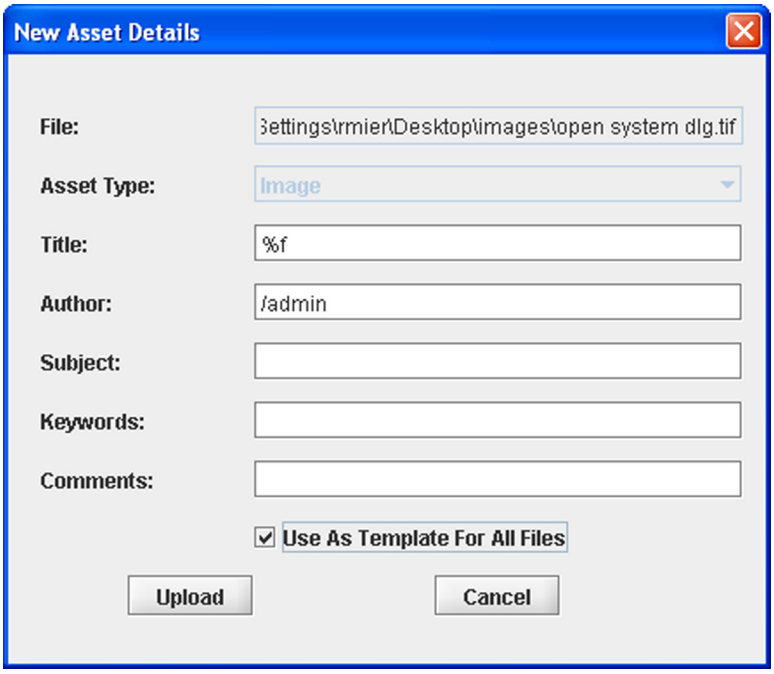


Figure 119 New Asset Details—Use AS Template For All Files

STORING IMAGE FILES and LYRIC TEMPLATES

Asset Manager handles the storing of image files and Lyric templates as follows:

Image Files
An image file will generate a thumbnail image when entered into Asset Manager. These thumbnail images will also be displayed in LUCI's Image Browser when the applicable Context is selected.

Lyric Templates
To use Lyric templates in LUCI, they must have been previously saved with XML. See *Saving Lyric Templates with XML*, below. Asset Manager will report an error in the Status Window, if you try to store a **.lyr** file that does not have XML in it.

SAVING LYRIC TEMPLATES with XML

In order to enter Lyric templates into Asset Manager, they must have been previously saved with XML. To do this, save the template in Lyric. Lyric must be running on a template creation workstation that has the XML and MOS plug-ins installed and configured correctly. See "INSTALLING the NEW ASSET MANAGER" on page 19. The template creation workstation can be an offline Lyric system or a Lyric-based system. The template creation workstation should not be on the CAMIO server.

The template creation workstation can be an offline Lyric system or a Lyric-based system. The template creation workstation should not be on the CAMIO server.

CONTEXTS

Clicking on a Context icon will display all the assets in the Asset Display window. A plus sign to the left of the Context icon (Figure 120) indicates that there are sub-folders in that Context. Clicking on the plus sign will expand the view and allow you to browse the sub-folders.

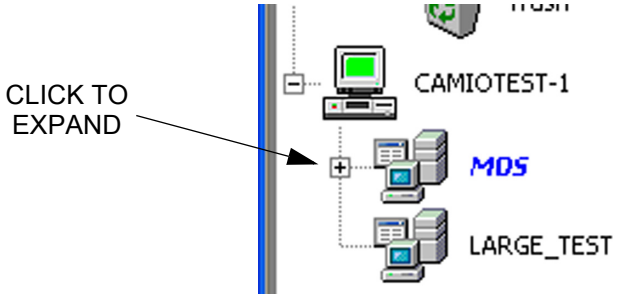


Figure 120 Click to View Subfolders

CONTEXT SUBFOLDERS

Using Context subfolders offers a convenient way to organize different types of assets within a Context. It is recommended to create and name folders that match the content that will be uploaded.

Adding a New Folder

To add a new folder:

1. Right-click on the Context.

2. Select **New Folder** from the context menu that appears. The **Create Folder** dialog appears (Figure 121).

Figure 121 Create Folder

3. Enter the name of the new folder.

4. Click **OK**.

To use Lyric templates in LUCI, they must have been previously saved with XML. Asset Manager will report an error in the Status window if you try to store a .lyr file that does not have XML in it.

DELETING OBJECTS

To delete an object from a Context, right-click on the object and select **Delete**. The object will then be moved into the Trash bin and may be deleted from there. To delete the contents of the Trash bin, right-click on the Trash bin and select **Empty Trash**.

To delete an object without moving it to the Trash bin, hold down the **Shift** key, while performing the delete operation. This operation cannot be undone.

EDITING OBJECT PROPERTIES

Object properties can be edited once an object has been uploaded by right clicking on the object and selecting **Properties**. The **Properties** dialog appears with the **General** tab selected by default as shown in Figure 85. The **Properties** dialog allows edits to be made to the metadata as well as offering the ability to change Virtual channel assignments and snap frames. See below for detailed descriptions of these tabs.

General Tab (Figure 122) - The **General** tab displays the Lyric message number, type of file, Lyric build number, and other pertinent file information including if files were saved with XML (see **Attributes**).

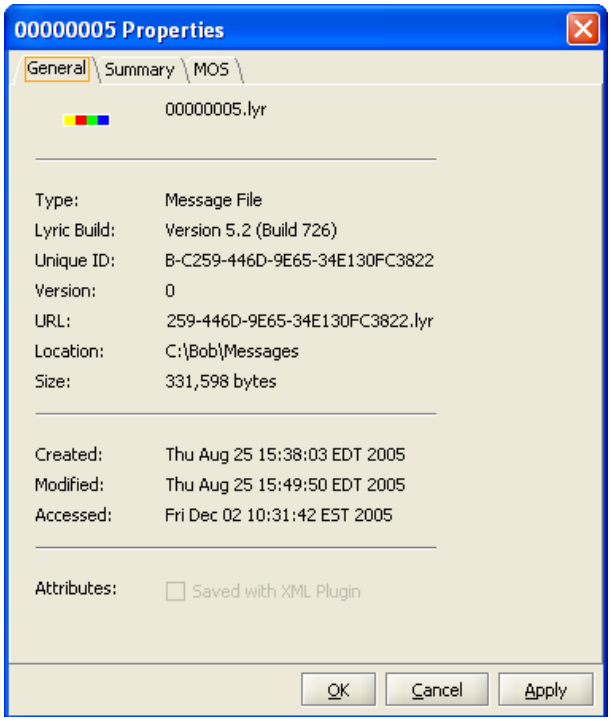


Figure 122 Properties—General Tab

Summary Tab (Figure 123) - The **Summary** tab provides **Title**, **Subject**, **Author**, **Keywords**, and **Description** fields that may be edited.

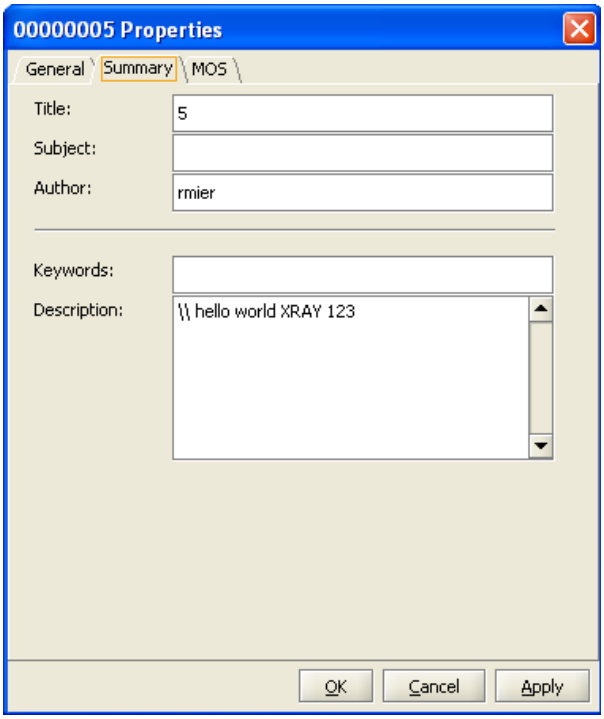


Figure 123 Properties Dialog—Summary Tab

MOS Tab (Figure 124) - The **MOS** tab provides various fields for editing.

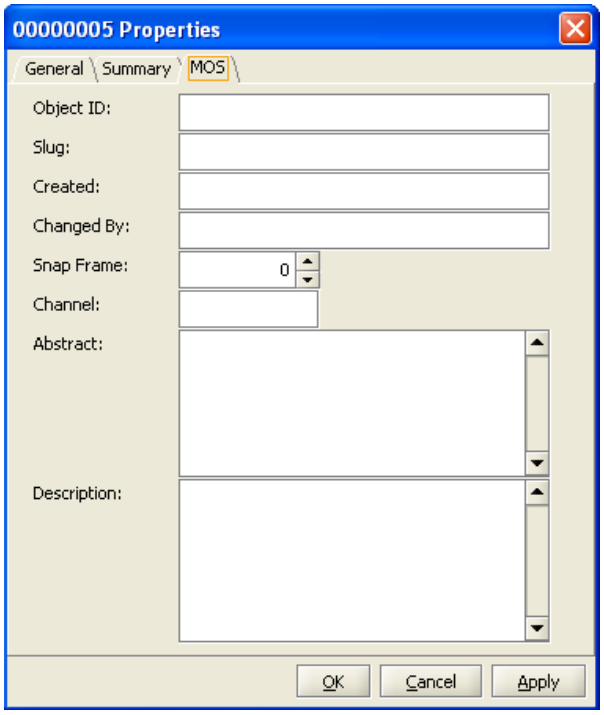


Figure 124 Properties Dialog—MOS Tab

UPLOADING REPLACEMENTS

When an object is uploaded to the CAMIO server using Asset Manager, it is automatically assigned a GUID (Globally Unique ID). If an object is deleted, the GUID is also deleted. If an existing object needs to be replaced, it is best practice to upload a replacement by right clicking on the object and selecting **Upload Replacement** from the context menu (Figure 125).

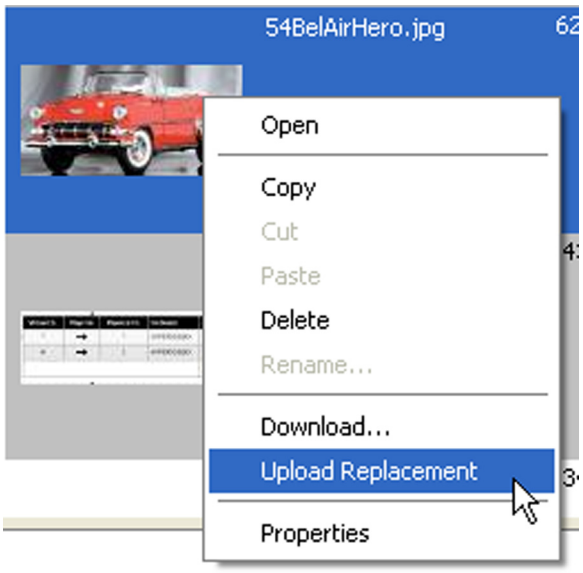


Figure 125 Upload Replacement

The following example should make this clear.

> ***Example**: A new lower third has been created to replace the current lower third. All new and existing LUCI objects should use this new message. You should select **Upload Replacement,** rather than **Delete**. If you delete the old object, then any LUCI objects created from that object will still play out with the old content. Only if **Upload Replacement** is used will all LUCI objects reflect the change.*

Important

If an object is deleted from the Asset Manager, the newsroom should refresh their LUCI browser to ensure that their LUCI browser is not offering any objects that are no longer available. If an image has been deleted from a Context using Asset Manager and LUCI has not been refreshed, it is possible for the newsroom to preview a graphic correctly even if the image no longer exists.

CHANGING VIRTUAL ASSIGNMENTS

To do this:

1. Select a **Template**.

2. Right click and select the **MOS** tab from the properties page.

3. Edit the Channel text box.

CHANGING SNAP FRAME

To do this:

1. Select a **Template**.

2. Right click and select the **MOS** tab from the properties page.

3. Select new Snap Frame.

APPENDIX G: MIME TYPES

The following list of MIME types is provided for the benefit of the user. Note, however, that Chyron does not support many of the listed file formats.

MIME TYPES

FILE EXTENSION	
323	text/h323
acx	application/internet-property-stream
ai	application/postscript
aif	audio/x-aiff
aifc	audio/x-aiff
aiff	audio/x-aiff
asf	video/x-ms-asf
asr	video/x-ms-asf
asx	video/x-ms-asf
au	audio/basic
avi	video/x-msvideo
axs	application/olescript
bas	text/plain
bcpio	application/x-bcpio
bin	application/octet-stream
bmp	image/bmp
c	text/plain
cat	application/vnd.ms-pkiseccat
cdf	application/x-cdf
cer	application/x-x509-ca-cert
class	application/octet-stream
clp	application/x-msclip
cmx	image/x-cmx
cod	image/cis-cod
cpio	application/x-cpio
crd	application/x-mscardfile
crl	application/pkix-crl

MIME TYPES

crt	application/x-x509-ca-cert
csh	application/x-csh
css	text/css
dcr	application/x-director
der	application/x-x509-ca-cert
dir	application/x-director
dll	application/x-msdownload
dms	application/octet-stream
doc	application/msword
dot	application/msword
dvi	application/x-dvi
dxr	application/x-director
eps	application/postscript
etx	text/x-setext
evy	application/envoy
exe	application/octet-stream
fif	application/fractals
flr	x-world/x-vrml
gif	image/gif
gtar	application/x-gtar
gz	application/x-gzip
h	text/plain
hdf	application/x-hdf
hlp	application/winhlp
hqx	application/mac-binhex40
hta	application/hta
htc	text/x-component
htm	text/html
html	text/html
htt	text/webviewhtml
ico	image/x-icon
ief	image/ief
iii	application/x-iphone

MIME TYPES

ins	application/x-internet-signup
isp	application/x-internet-signup
jfif	image/pipeg
jpe	image/jpeg
jpeg	image/jpeg
jpg	image/jpeg
js	application/x-javascript
latex	application/x-latex
lha	application/octet-stream
lsf	video/x-la-asf
lsx	video/x-la-asf
lzh	application/octet-stream
m13	application/x-msmediaview
m14	application/x-msmediaview
m3u	audio/x-mpegurl
man	application/x-troff-man
mdb	application/x-msaccess
me	application/x-troff-me
mht	message/rfc822
mhtml	message/rfc822
mid	audio/mid
mny	application/x-msmoney
mov	video/quicktime
movie	video/x-sgi-movie
mp2	video/mpeg
mp3	audio/mpeg
mpa	video/mpeg
mpe	video/mpeg
mpeg	video/mpeg
mpg	video/mpeg
mpp	application/vnd.ms-project
mpv2	video/mpeg
ms	application/x-troff-ms

MIME TYPES

mvb	application/x-msmediaview
nws	message/rfc822
oda	application/oda
p10	application/pkcs10
p12	application/x-pkcs12
p7b	application/x-pkcs7-certificates
p7c	application/x-pkcs7-mime
p7m	application/x-pkcs7-mime
p7r	application/x-pkcs7-certreqresp
p7s	application/x-pkcs7-signature
pbm	image/x-portable-bitmap
pdf	application/pdf
pfx	application/x-pkcs12
pgm	image/x-portable-graymap
pko	application/ynd.ms-pkipko
pma	application/x-perfmon
pmc	application/x-perfmon
pml	application/x-perfmon
pmr	application/x-perfmon
pmw	application/x-perfmon
pnm	image/x-portable-anymap
pot,	application/vnd.ms-powerpoint
ppm	image/x-portable-pixmap
pps	application/vnd.ms-powerpoint
ppt	application/vnd.ms-powerpoint
prf	application/pics-rules
ps	application/postscript
pub	application/x-mspublisher
qt	video/quicktime
ra	audio/x-pn-realaudio
ram	audio/x-pn-realaudio
ras	image/x-cmu-raster
rgb	image/x-rgb

MIME TYPES

rmi	audio/mid
roff	application/x-troff
rtf	application/rtf
rtx	text/richtext
scd	application/x-msschedule
sct	text/scriptlet
setpay	application/set-payment-initiation
setreg	application/set-registration-initiation
sh	application/x-sh
shar	application/x-shar
sit	application/x-stuffit
snd	audio/basic
spc	application/x-pkcs7-certificates
spl	application/futuresplash
src	application/x-wais-source
sst	application/vnd.ms-pkicertstore
stl	application/vnd.ms-pkistl
stm	text/html
svg	image/svg+xml
sv4cpio	application/x-sv4cpio
sv4crc	application/x-sv4crc
swf	application/x-shockwave-flash
t	application/x-troff
tar	application/x-tar
tcl	application/x-tcl
tex	application/x-tex
texi	application/x-texinfo
texinfo	application/x-texinfo
tgz	application/x-compressed
tif	image/tiff
tiff	image/tiff
tr	application/x-troff
trm	application/x-msterminal

MIME TYPES

tsv	text/tab-separated-values
txt	text/plain
uls	text/iuls
ustar	application/x-ustar
vcf	text/x-vcard
vrml	x-world/x-vrml
wav	audio/x-wav
wcm	application/vnd.ms-works
wdb	application/vnd.ms-works
wks	application/vnd.ms-works
wmf	application/x-msmetafile
wps	application/vnd.ms-works
wri	application/x-mswrite
wrl	x-world/x-vrml
wrz	x-world/x-vrml
xaf	x-world/x-vrml
xbm	image/x-xbitmap
xla	application/vnd.ms-excel
xlc	application/vnd.ms-excel
xlm	application/vnd.ms-excel
xls	application/vnd.ms-excel
xlt	application/vnd.ms-excel
xlw	application/vnd.ms-excel
xof	x-world/x-vrml
xpm	image/x-xpixmap
xwd	image/x-xwindowdump
z	application/x-compress
zip	application/zip