



eMAM Super Admin Console

User Guide

Version 5.3

Oct 2021

Notice

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Revision History

<u>eMAM Version</u>	<u>Author</u>	<u>Date</u>	<u>Reviewed By</u>	<u>Description</u>
3.7	Rincy Abraham	May 2016		eMAM 3.7 version
3.8	Rincy Abraham	April 2017		Added 3.8 Features and enhancements
		Aug 2017		Updated till 24.eMAM_patch_11JUL2017
		Sept 2017		Updated till 30.eMAM_patch_24AUG2017/32.eMAM_patch_11SEP2017
		11 th Jan 2018		Updated till 41.eMAM_patch_01NOV2017 and 43.eMAM_patch_17NOV2017 PFR integration with eMAM, Save as option in Unit settings, Add to Category & Add to Project as action type in workflow management, MD5 checksum option at ingest profile
5.0	Rincy Abraham	April 2018		Added new features and enhancements from eMAM 5.0 version
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5.0	Rincy Abraham	Sept 2018		Updated 5.0.0.14_Critical_patch_30AUG2018 <i>Added filter extension option in Manage storage profiles, Fully Purge option in Workflow Action Type, "Enable Path Style" option in Cloud archive settings and "Delivered Filename" variable in Delivery sidecar XML management and "ingest without embedded metadata" for files resubmitted in ingest dashboard.</i>
5.0	Rincy Abraham	Nov 2018		Updated 5.0.0.23_Critical_patch_14NOV2018 Added "Dell EMC ECS" as new list item in Archive server management and included header field option in Workflow Management with Basic Authentication
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5.2	Rincy Abraham	Oct 2020		Updated patch 5.2.2_01OCT2020
5.2	Rincy Abraham	Dec 2020		Updated 5.2.7_09DEC2020 Added "OAuth" Authentication type in workflow management.
5.2	Rincy Abraham	Jan 2021		Updated 5.2.9_22JAN2021 Added option to enable archive/restore notification as part of Archive profile settings.
5.2	Rincy Abraham	Feb 2021		Updated 5.2.10_09FEB2021 Introduce AWS Elemental Media Convert as new delivery transcoder for Lambda delivery.
5.2	Rincy Abraham	Aug 2021		Updated 5.2.17_28JUL2021 Added "Save As" option in Delivery profiles, DAC ALTO Connect as new archive type
5.2	Rincy Abraham	Oct 2021		Updated 5.2.19_07OCT2021 Added "Create Proxy" as Action type & "Instant Asset" as Xcode type
5.3	Rincy Abraham	Oct 2021		Released eMAM version 5.3 Renamed to "InstantAssetIngest (Beta)" Introduced Capella Cambria FTC as new transcode server Add today(), today(+n), today(-n) as options in Date pop-up controls in <i>Workflow Condition</i> & <i>Workflow Actions</i> Include Scheduled Metadata field under "Change Metadata" Action dropdown.

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Super Administrator Console

The eMAM Super Administrator Console is a browser-based interface that can run from any standard web browser. This allows eMAM to have multiple super administrators at each location. The Super Administrator console is required to create a new unit in eMAM by allocating servers and eMAM components to that unit. eMAM Super Administrator can create another eMAM Super Administrator, eMAM Unit Administrator and can set and edit the unit features. eMAM Super Administrator can also create and manage organizational units in the eMAM system. eMAM supports multiple units in the system and each unit consists of different set of users, user groups, categories, projects, assets and system settings.

For information on super administrators and other roles in the eMAM system, see Appendix 1. The console offers tools to create and manage different units and users in the eMAM System.

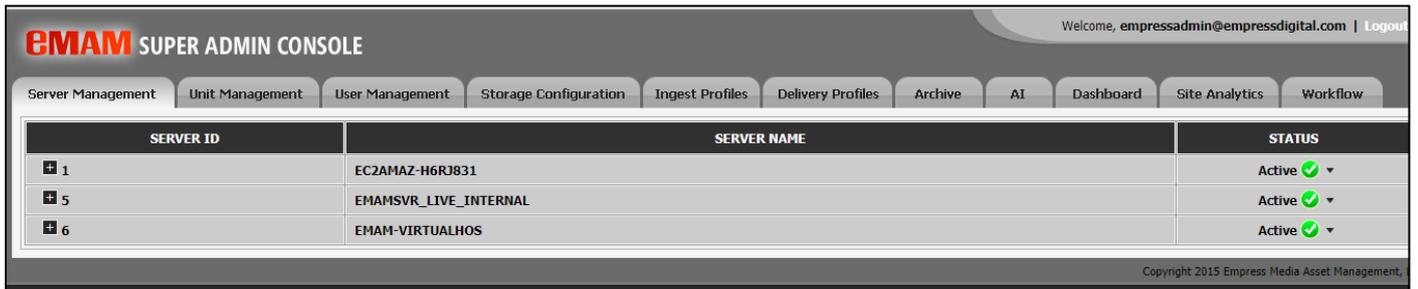
1. eMAM supports three types of login - *Normal login*, *Active Directory login* and *SSO login*. Login to eMAM Super Admin console using eMAM credentials.

Main Login Screen

2. If your profile is associated with multiple units, you will be asked to choose their unit before login (*only for Unit Users*)

Multi-unit login screen for eMAM Super Admin

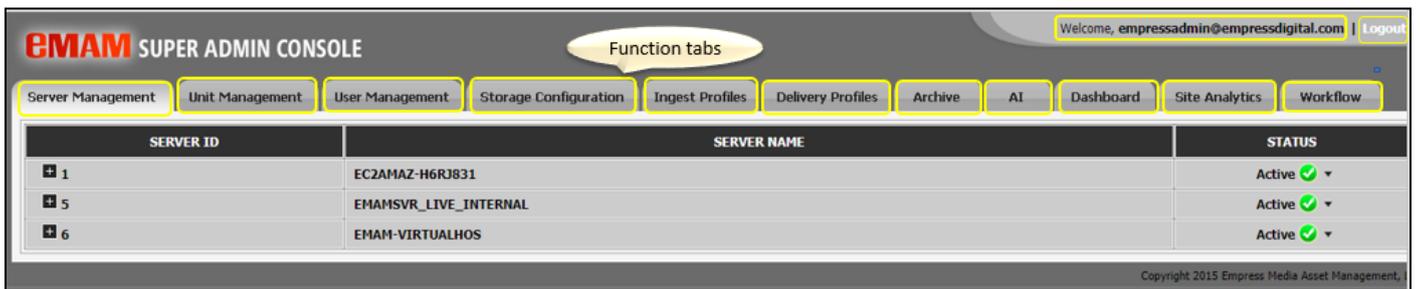
3. Once you successfully log in, the eMAM Super Admin console home page will be displayed as shown below.



Home page – Super Admin console

Overview of the Home page

eMAM Super Admin console home page overview is shown below.



It includes logged in user details, logout option and various function tabs which will be described in detail below.

- Server Management
- Unit Management
- User Management
- Storage Configuration
- Ingest Profiles
- Delivery Profiles
- Archive
- AI (Artificial Intelligence)
- Dashboard
- Site Analytics
- Workflow

Following tabs are displayed in the home page of eMAM Super Admin console:

1. Server Management

The Server Management functionality is used to manage all servers and server components. It displays SERVER ID, SERVER NAME and license STATUS of the server. The super administrator can check the license status of each server and its components. The Component ID, Name, URL, Version, Expiry date and status of each component installed on the server is displayed under COMPONENT ID. The status can be 'Active'  or 'Stopped' .

Several eMAM components can run on any given server. For an overview of system components, see Appendix 2. These components include the Analytics Gateway, eMAM Archive Service, eMAM Client, eMAM Delivery Service, eMAM Director, eMAM Gateway, eMAM Mobile, eMAM S3 Connector, eMAM Task Manager and eMAM Transcode Manager. Note: AI services are hosted as a part of eMAM Gateway components so to configure AI services in the eMAM system, define the eMAM Gateway URL hosting AI services for the Server.

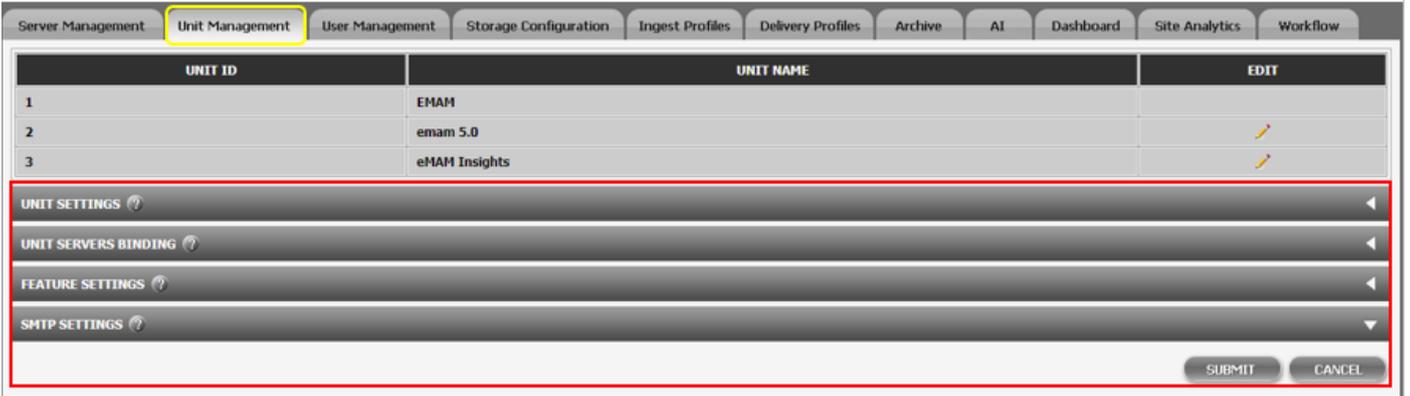
SERVER ID	SERVER NAME				STATUS	
1	EC2AMAZ-H6RJ831				Active 	
COMPONENT ID	COMPONENT NAME	COMPONENT URL	VERSION	EXP. DATE	STATUS	
5	eMAM Analytics Gateway	<input type="text"/> UPDATE	3.9.6	12/31/2018 5:00:00 AM	Active 	
9	eMAM Archive Service	<input type="text"/> UPDATE	3.9.6	12/31/2018 5:00:00 AM	Active  Stopped 	
2	eMAM Client	<input type="text"/> UPDATE	3.9.6	12/31/2018 5:00:00 AM	Active 	
11	eMAM Delivery Service	<input type="text"/> UPDATE	3.9.6	12/31/2018 5:00:00 AM	Active 	
1	eMAM Director	<input type="text"/> UPDATE	3.9.6	12/31/2018 5:00:00 AM	Active 	
4	eMAM Gateway	<input type="text"/> UPDATE	3.9.6	12/31/2018 5:00:00 AM	Active 	
3	eMAM Mobile	<input type="text"/> UPDATE	3.9.6	12/31/2018 5:00:00 AM	Active 	
8	eMAM S3 Connector	<input type="text"/> UPDATE	3.9.6	12/31/2018 5:00:00 AM	Active 	
12	eMAM Task Manager	<input type="text"/> UPDATE	3.9.6	12/31/2018 5:00:00 AM	Active 	
7	eMAM Transcode Manager	<input type="text"/> UPDATE	3.9.6	12/31/2018 5:00:00 AM	Active 	

Server Management

- Component ID-** A Unique ID of the component in the database.
- Component Name-** Name of the corresponding eMAM Component.
- Component URL-** The virtual path URL of the component where it is hosted.
For example- <http://115.112.145.107/emamclient>
- Version -** Current version of the eMAM Component.
- Expiry Date-** Expiry date of the component. After the expiration date, the component will stop working.
- Status-** Active  indicates that the component is currently running. It can be stopped  whenever required by changing the status to Stopped.

2. Unit Management

eMAM is a multi-tenant system: it can support multiple organizational units in one system, each with different branding, multiple storage, ingest and archive profiles, separate metadata schemas, and users. Under 'Unit Settings', the super administrator provides the details such as unit name, site name, order email id, help email id and email ID for system generated mails. The super administrator can also enable or disable features like FCP Export, Anywhere, Amazon S3 Storage etc. The window displays Id and Name of the existing units, and the super administrator can edit the information using 'Edit'  option.



The screenshot shows the 'Unit Management' section of the eMAM Super Admin Console. At the top, there is a navigation bar with tabs for 'Server Management', 'Unit Management' (highlighted), 'User Management', 'Storage Configuration', 'Ingest Profiles', 'Delivery Profiles', 'Archive', 'AI', 'Dashboard', 'Site Analytics', and 'Workflow'. Below the navigation bar is a table with three columns: 'UNIT ID', 'UNIT NAME', and 'EDIT'. The table contains three rows of data:

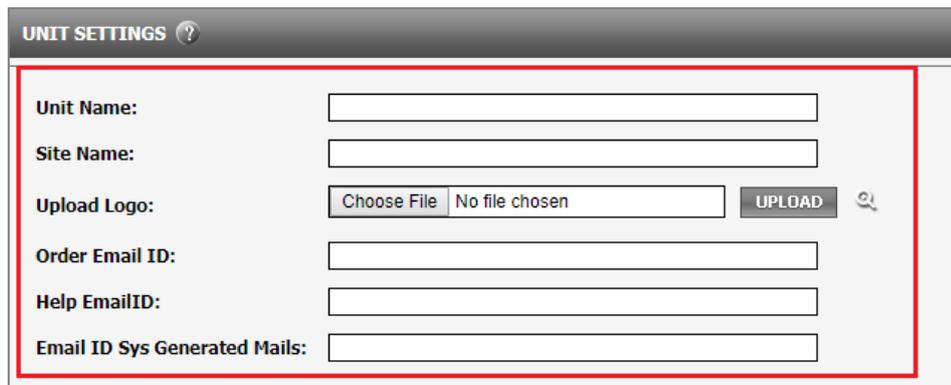
UNIT ID	UNIT NAME	EDIT
1	EMAM	
2	emam 5.0	
3	eMAM Insights	

Below the table is a settings panel with four sections: 'UNIT SETTINGS', 'UNIT SERVERS BINDING', 'FEATURE SETTINGS', and 'SMTP SETTINGS'. Each section has a question mark icon and a right-pointing arrow. At the bottom right of the settings panel are 'SUBMIT' and 'CANCEL' buttons.

Unit Management

2.1 Unit Settings

Unit Settings section will help the Super Admin to create new units and specify the various settings associated with each unit.



The screenshot shows the 'UNIT SETTINGS' form. It contains the following fields:

- Unit Name:** A text input field.
- Site Name:** A text input field.
- Upload Logo:** A file upload field with a 'Choose File' button, 'No file chosen' text, an 'UPLOAD' button, and a search icon.
- Order Email ID:** A text input field.
- Help EmailID:** A text input field.
- Email ID Sys Generated Mails:** A text input field.

Unit Settings

- Unit Name-** Unique name for the unit
- Site Name-** This can be a URL that links to another web page. It will be a link to the Logo in the upper left-hand corner of the eMAM Director interface.
- Upload Logo-** Use this option, if you want a logo to appear in the upper left-hand corner of the eMAM Director interface. Please note only 1 logo can be in the director interface per UNIT. Logo File Type can be a .jpg or .gif. Choose the file and upload the logo. *Max size is 650x60 pixels.*
- Order Email ID-** Orders will be sent to the email id specified here. For *eOrder feature under eBIN widget.*
- Help Email ID-** The help emails will be delivered to this email id, which is the support portal for the company
- Email ID sys generate mails-** Email id where the system generate mails will be sent.

2.2 Unit Servers Binding

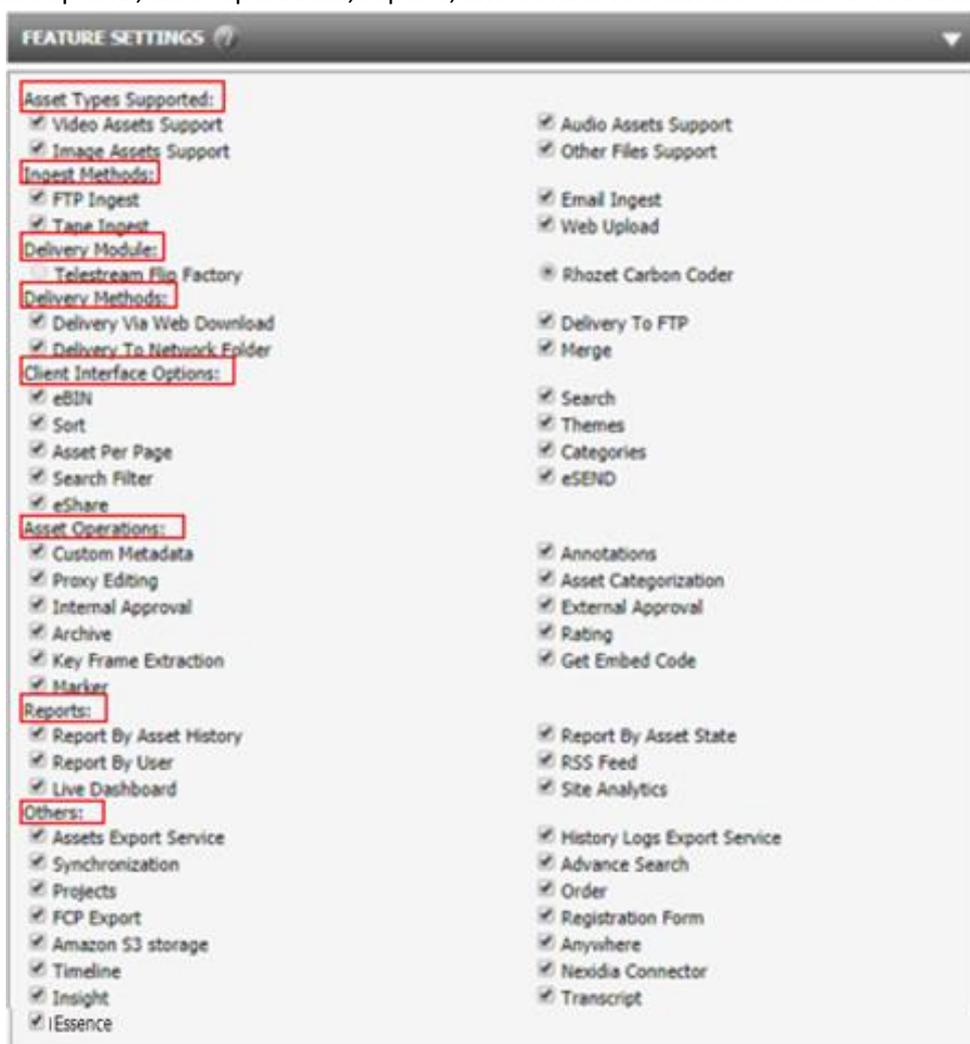
The Super Administrator can also associate a server to a unit using 'Unit Servers Binding' option. A unit can be associated with more than one server. All the servers that are under the same eMAM license code are listed here. This option allows the Super Administrator to dedicate one or more servers to a specific business unit, depending on the physical location of the office and the workflow.



Unit Server Binding

2.3 Feature Settings

eMAM Super Administrator can also create and manage organizational units in the eMAM system. eMAM supports multiple units in the system and each unit consists of different set of users, user groups, categories, projects, assets and system settings. Feature settings are used to enable or disable different features for a given unit. These features are related to supported asset types supported, ingest methods, delivery module, delivery methods, interface options, asset operations, reports, and others. You can see the list of features below:



Feature Settings

Asset Types Supported	Description	Additional Info
Video Assets Support	Multimedia assets with file formats such as: MPEG-1, MPEG-2, MPEG-4, H.263, H.264, VC-1, Flash, DV25, DV50, DVC Pro, DPS, DivX, JPEG 2000, DNxHD, AVCIntra, Image Sequences, Windows Media, RealVideo, HDV, MXF (including D-10/IMX), MPEG-2 PS, MPEG-2 TS, GXF, LXF, QuickTime, WMV, ASF, AVI, VOB, 3GPP, 3G2, WMA, WAV, Broadcast WAV	
Audio Assets Support	Audios assets with file formats such as: PCM, MP3, AAC, AMC, AMR-NB, WM Audio, RealAudio.	
Image Assets Support	Digital photographs, scanned images or documents, or images produced by software graphical programs with file formats such as Bmp, Emf, Exif, Gif, Icon, Jpeg, Png, Tiff, Wmf.	
Other Files Support	Document files such as Doc, Pdf, Xls, Ppt and all the files with unrecognized formats come under other files.	
Ingest methods	Description	Additional Info
FTP ingest	File transfer Protocol- A standard Internet protocol to exchange files between computers over the net. Using FTP ingest method, files are uploaded to the ingest folder.	
Web Upload	Upload files and add metadata using Uploader option from the eMAM Director interface.	
Email Ingest	Discontinued	
Tape Ingest	Discontinued	
Delivery Module	Description	Additional Info
Telestream Flip Factory	Latest Delivery modules supported are Command Line, Telestream Vantage, Harmonic WFS and Harmonic ProMedia Carbon	
Rhozet Carbon Coder		
Delivery Methods	Description	Additional Info
Delivery via web download		

Delivery to Network Folder	Latest delivery methods in the eMAM system are- NETWORK, SAN and FTP . eMAM delivery service can deliver original files and/or transcoded files to any Local, Network or FTP locations. This covers most of the video servers, SAN, NAS, DAS and NLEs.	
Delivery to FTP		
Merge		
Client Interface options	Description	Additional Info
eBIN	Enable this checkbox to display eBIN options.	
Search	Enable this checkbox to display search options.	
Sort	Enable this checkbox to display Sort menu.	
Themes	Enable this checkbox to display <i>Themes</i> menu.	
Asset Per Page	Enable this checkbox to display <i>Asset per page</i> menu using which users can choose number of assets to be displayed on each page.	
Categories	Enable this checkbox to display list of all categories created in the eMAM system.	
Search Filter	Enable this checkbox to display <i>Search Filter</i> option which allows users to filter assets based on category, project, asset type and size.	
eSEND	Enable this checkbox to display eSEND option in the eBIN window	
eShare	Enabling this checkbox will display eShare option in the eBIN window.	
Asset Operations	Description	Additional Info
Custom Metadata	Enable this feature checkbox to allow admins to create their own custom metadata for assets. Permission to Create custom metadata is only limited to Unit Admins.	
Annotations	Enable this feature checkbox to allow users (with permission) to add annotation objects such as text, rectangles, circles etc. on the asset.	
Proxy Editing	Allows users to see the User History Report. Enable this feature checkbox to display Subclips widget for users (<i>with permission</i>).	

Asset Categorization	Enable this feature checkbox to allow users (<i>with permission</i>) to create and manage categories in eMAM.	
Internal Approval	Enable this feature checkbox to allow users (<i>with permission</i>) to send assets for approval to other eMAM users.	
External Approval	Enable this feature checkbox to allow users (<i>with permission</i>) to send assets for approval to non eMAM users.	
Archive	Enable this feature checkbox to allow users (<i>with permission</i>) to archive the assets to the pre-defined archive locations.	
Rating	Enable this feature checkbox to allow users (<i>with permission</i>) to rate the assets.	
Key Frame Extraction	Enable this feature checkbox to allow users (<i>with permission</i>) to extract key frames from video assets.	
Get Embed Code	Enable this feature checkbox to allow users (<i>with permission</i>) to generate the embed code for a video.	
Marker	Enable this feature checkbox to allow users (<i>with permission</i>) to place markers in the video assets at a particular point in a video timeline.	
Reports	Description	Additional Info
Report by Asset History	Enable this feature to display history widget in the eMAM Director interface.	
Report by Asset State	This feature allows user to generate asset state report.	
Report by User	This feature allows user to generate report based on different users.	
RSS Feed	RSS Feed is currently only available in the eMAM Admin interface.	
Live Dashboard	Enable this feature checkbox to display Dashboard widget in the eMAM Director interface and track backend operations like ingest, delivery, archive, cloud, purge and restore.	
Site Analytics	Enable this feature checkbox to view to analyze eMAM Features usage under Site Analytics tab in the Admin Tools page.	
Others	Description	Additional Info

Assets Export Service	Non-Functional	
History Logs Export Service		
Synchronization		
Advance Search	Enable this feature checkbox to display <i>Advanced Search</i> option in the eMAM Director interface.	
Projects	Enable this feature checkbox to display Projects widget with list of all Projects created in eMAM, Premiere Panel, InDesign and After Effects panel.	
Order	Enable this feature checkbox to allow users to use eOrder function under eBIN widget.	
FCP Export	Enable this feature checkbox to export FCP xml of video assets in a project	
Registration Form	Enable this feature checkbox to register bulk users to eMAM system using registration form.	
Amazon S3 Storage	Enable this feature checkbox to view cloud dashboard and all cloud related options.	
Anywhere	Enable this feature checkbox to display Anywhere widget in the eMAM director interface.	Discontinued
Timeline	Enable this feature checkbox to display Timeline and Timeline Preview widgets in the eMAM Director interface.	
Avid DS	Enable this feature checkbox to display Avid DS widget in the eMAM Director interface. Avid DS allows users to do phonetic searches in the video assets.	<i>Requires additional cost & must have Avid Dialogue search from Avid.</i>
Insight	Enable this feature checkbox to display Insight widget.	
Transcript	Enable this feature checkbox to display Transcript widget.	
Essence	Enable this feature checkbox to display Essence widget.	

2.4 SMTP Settings

Simple Mail Transfer Protocol or SMTP is a set of communication guidelines that allows software to transmit email over the internet. Most email software is designed to use SMTP for communication purposes when sending the email. It only works for outgoing messages. eMAM uses an external SMTP Mail server to send emails. The settings here are for the eMAM eSend functionality, sending automated emails from the system. Using SMTP settings, values such as host, username, password, port and sender address can be set. If no settings are specified, system settings are used.

The super administrator can also include display name, set “from” address to match the sender address, and enable SSL. Once SMTP settings are specified, “**Submit**” will enable the settings.

The screenshot shows the 'SMTP SETTINGS' configuration window. It includes a 'Use default settings' checkbox and several input fields: SMTP Host (email-smtp.us-east-1.amazonaws.com), SMTP UserName (AKIAJBWXPQPKZLEYHA), SMTP Password (masked with dots), SMTP Port (587), and SMTP Sender Address (mail@emamonline.com). On the right, there are three checkboxes: 'Include Display Name', 'Set From Address Same as Sender address', and 'Enable SSL', all of which are checked. At the bottom right, there are three buttons: 'SAVE AS', 'SUBMIT', and 'CANCEL'.

SMTP Settings for User Management

- Use default settings**- If this option is enabled, default settings will be considered.
- SMTP Host**- SMTP HOST server IP
- SMTP Username**- Username to authenticate with SMTP server
- SMTP Password**- Password to authenticate with SMTP server
- SMTP Port**- Port of SMTP server
- Include Display Name**- If this option is enabled, the first name and last name of eMAM user will be part of the mails being sent
- SMTP Sender Address** - Sender email address to be included as part of email address
- Set from Address Same as Sender address**- If this option is enabled, the “from” address and the sender address will be same for eMAM emails.
- Enable SSL**- This option should be enabled for the SSL enabled SMTP accounts.

Click on the **Submit** button to create a new unit or on the **Cancel** button to cancel the changes made.

Edit Unit: You can edit any existing Unit details using edit  icon corresponding to each unit. Click on this edit icon to display the Unit details.

2 QA Unit

UNIT SETTINGS ?

UNIT SERVERS BINDING ?

FEATURE SETTINGS ?

SMTP SETTINGS ?

Use default settings

SMTP Host: Include Display Name

SMTP UserName: Set From Address Same as Sender address

SMTP Password: Enable SSL

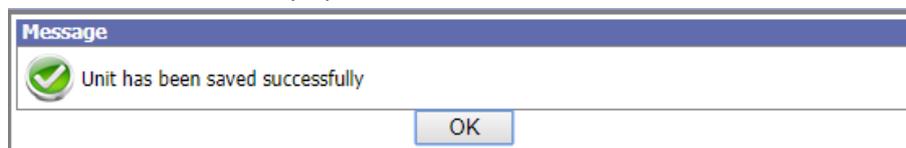
SMTP Port:

SMTP Sender Address:

SAVE AS SUBMIT CANCEL

Edit Unit

Make required changes in the unit details and click on the **Submit** button to save the changes. Below message box appears after the unit is successfully updated:



Unit successfully updated message box

If you wish to duplicate this Unit setting details to create another unit, click on **Save as** button. A new **Save Unit As** window opens up.

SAVE UNIT AS

Unit Name:

Storage Profiles

Ingest Profiles

Metadata Fields

Metadata Groups

Metadata Sets

Submit Cancel

A pop-up box appears with unit name(editable) and below checkboxes. Key in Unit name and enable checkboxes. *Note: Ingest Profiles and Storage Profiles are co related so enabling one will automatically enable other and vice versa. Same is the case with Metadata Fields, Metadata Groups and Metadata Sets.*

- Storage Profiles
- Ingest Profiles
- Metadata Fields
- Metadata Groups
- Metadata Sets

Click on **Submit** button to create a new unit duplicated from an existing unit.

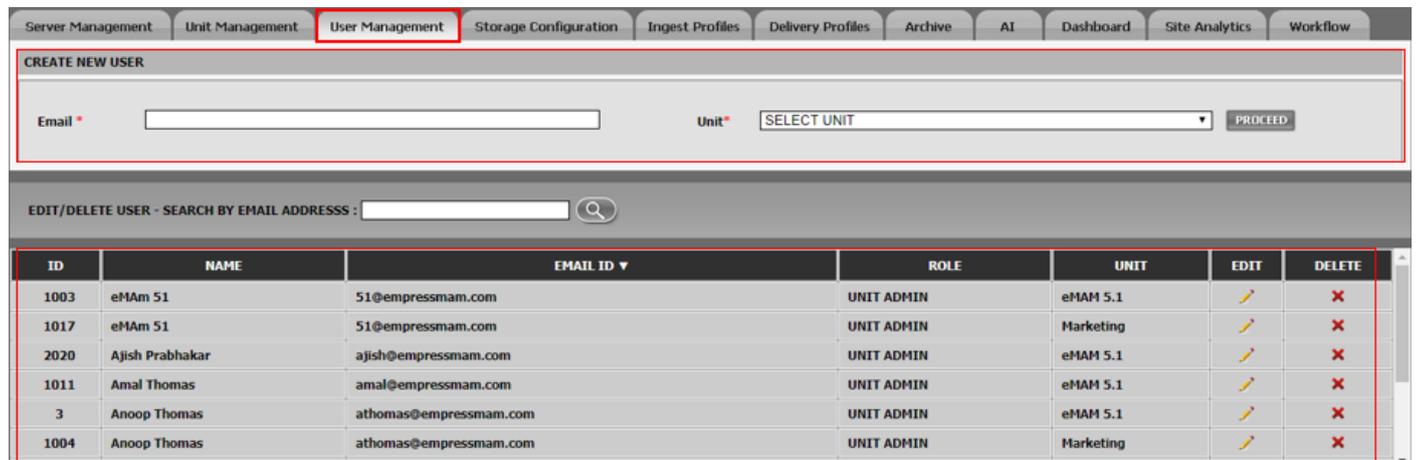
3. User Management

Super administrators can create and manage new users using the User Management option in the Super Admin console. The super administrator can create eMAM accounts for new users by entering their general and personal information such as name, contact details, unit, role, etc. The super administrator can set the password options and the associated ingest profile for the new user.

3.1 Create New User

Super Admins can create new users by entering the email address and selecting the Unit they belong to. Each user must have a unique email address. Click Proceed and page expands to fill in more information about the new user.

All existing users' details will be displayed with Edit  and Delete  option. User details can be sorted using Email id column.

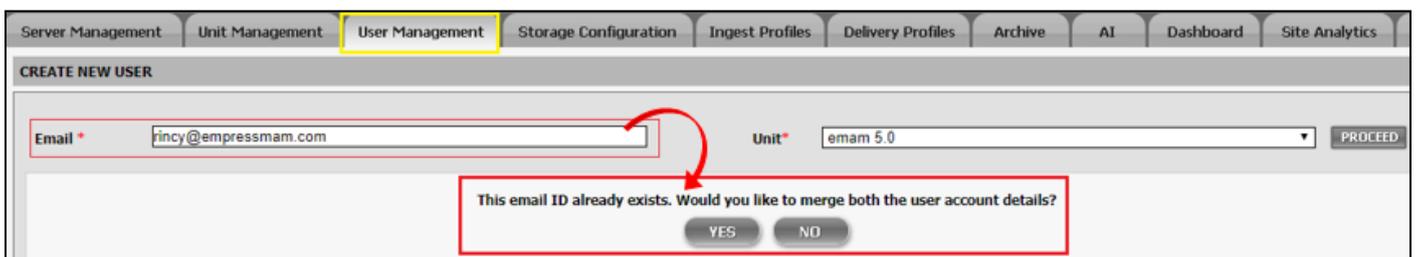


The screenshot shows the 'User Management' section of the eMAM Super Admin Console. At the top, there is a navigation bar with tabs for 'Server Management', 'Unit Management', 'User Management', 'Storage Configuration', 'Ingest Profiles', 'Delivery Profiles', 'Archive', 'AI', 'Dashboard', 'Site Analytics', and 'Workflow'. Below the navigation bar, there is a 'CREATE NEW USER' form with an 'Email' input field and a 'Unit' dropdown menu. A 'PROCEED' button is located to the right of the 'Unit' dropdown. Below the form, there is a search bar labeled 'EDIT/DELETE USER - SEARCH BY EMAIL ADDRESS:'. Below the search bar, there is a table of existing users with the following columns: ID, NAME, EMAIL ID, ROLE, UNIT, EDIT, and DELETE.

ID	NAME	EMAIL ID	ROLE	UNIT	EDIT	DELETE
1003	eMAM 51	51@empressmam.com	UNIT ADMIN	eMAM 5.1		
1017	eMAM 51	51@empressmam.com	UNIT ADMIN	Marketing		
2020	Ajish Prabhakar	ajish@empressmam.com	UNIT ADMIN	eMAM 5.1		
1011	Amal Thomas	amal@empressmam.com	UNIT ADMIN	eMAM 5.1		
3	Anoop Thomas	athomas@empressmam.com	UNIT ADMIN	eMAM 5.1		
1004	Anoop Thomas	athomas@empressmam.com	UNIT ADMIN	Marketing		

User Management

If the entered email address of the user already exists in the eMAM system, following message will be displayed after you click on **Proceed** button. Click **Yes** to merge the account details and **No** to cancel the action.



The screenshot shows the 'User Management' section of the eMAM Super Admin Console. At the top, there is a navigation bar with tabs for 'Server Management', 'Unit Management', 'User Management', 'Storage Configuration', 'Ingest Profiles', 'Delivery Profiles', 'Archive', 'AI', 'Dashboard', 'Site Analytics', and 'Workflow'. Below the navigation bar, there is a 'CREATE NEW USER' form. The 'Email' input field contains 'rincy@empressmam.com' and the 'Unit' dropdown menu is set to 'emam 5.0'. A 'PROCEED' button is located to the right of the 'Unit' dropdown. Below the form, there is a message box that says 'This email ID already exists. Would you like to merge both the user account details?' with 'YES' and 'NO' buttons.

Message displayed when duplicate email used to create a new user

3.2 Personal Information

After the email address and Unit details are entered, the window expands to enter other personal and SMTP setting details for the user. In this section, the super administrator can also select various ingest profiles associated with the Unit selected for this new user.

PERSONAL INFORMATION			
Firstname*	<input type="text"/>	Lastname*	<input type="text"/>
Mobile	<input type="text"/>	Phone*	<input type="text"/>
Fax	<input type="text"/>	City*	<input type="text"/>
Address3	<input type="text"/>	State*	-- SELECT --
Zipcode	<input type="text"/>	Role*	SELECT
Auto generate password	<input checked="" type="checkbox"/>	Password	<input type="text"/>
Disable Account	No	Account Expires	<input type="text"/>
Send Director link <input type="checkbox"/>	<input type="text" value="http://edit.emamcloud.com/emamdirector"/>	Send Client link <input type="checkbox"/>	<input type="text"/>
Associate ingest profiles here			
<input type="checkbox"/> Azure local ingest <input type="checkbox"/> Proxy Ingest <input type="checkbox"/> INHOUSE AME 55			
Prompt user to change password on first login? <input type="radio"/> Yes <input checked="" type="radio"/> No			

Personal Information

- a. **Domain Username-** A unique domain name associated with the user to uniquely identify the user. For example, for a person belonging to IT department, it can be IT/Employee name
- b. **Role-** Role of the user is defined. Role can be Super Admin, Unit Admin or Unit User (*see Appendix 1*).
- c. **Title-** Specify the title for the new user
- d. **Auto Generate Password-** If enabled, the password is generated by the system
- e. **Password-** If Edit Password option is checked, the super admin can change the password for the user.
- f. **Confirm Password-** Confirm the specified password.
- g. **Disable Account-** activate or deactivate the user's account
- h. **Account Expires-** The account for the user expires on the specified date, chosen from the attached calendar.
- i. **Comments-** Additional comments can be added here
- j. **Send Director Link-** The specified link of the director interface is sent to the new user, to the specified email id. For example- <http://115.112.145.107/emamdirector>
- k. **Send Client Link** – The specified link of the client interface is sent to the new user, to the specified email id. For example- <http://115.112.145.107/emamclient>
- l. **Associate Ingest Profile here-** The option is enabled only once Unit has been selected. Based on the Unit selected, associated ingest profiles will be shown which can be selected as required.
- m. **Prompt User to change password on first login-** If this option is selected, the user will be prompted to change the password when he or she first logs in to the interface.
- n. **Notify User:** A Checkbox to notify the user.
- o. **Auto Generate Userkey:** If enabled *Userkey* will be auto generated.

3.3 SMTP Settings

These *Simple Mail Transfer Protocol* or SMTP is an Internet standard for electronic mail, and these settings can be enabled for a user account.

SMTP Settings for User Management

Super administrator can specify SMTP settings including:

- Use Unit SMTP settings or default setting-** If you have your own SMTP, otherwise the default is used.
- SMTP Hostname-** SMTP host server name
- SMTP Username-** Username to authenticate with SMTP server
- SMTP Password-** Password to authenticate with SMTP server
- SMTP Port-** By default, SMTP uses TCP port 25, otherwise it can be specified here.
- SMTP Sender Address-** Sender email address to be included as part of email address
- Include Display Name-** If this option is enabled, the first name and last name of the eMAM user will be part of the mails being sent.
- Set from address same as sender address-** If this option is enabled, the from address and the sender address will be same for the emails being sent from eMAM.
- Enable SSL-** SSL (Secure Socket Layer) is a protocol that transmits information over the Internet in an encrypted form for security purposes. SMTP over SSL encrypts all data exchanged between the mail client and the mail server with a digital security certificate to protect the password and messages. This option should be enabled for the SSL enabled SMTP accounts.

If no settings are done, default settings are used. Once all the settings have been specified click '**Submit**' to save the settings. The name of newly created user, along with all the other details is added to the user list displayed below.

3.4 Edit/Delete User

The name of a newly created user, along with all the other details is added to the user list. The super administrator can edit the user information using the '**Edit**'  icon. Once the edit option is selected, the related information of the user is displayed in the General and Personal information tab, where it can be edited and then submitted. Once changes have been entered, click 'Submit' to save changes. There is also an option to delete any user by clicking the '**Delete**'  icon and search a user by the email address using  icon.

NAME	EMAIL ID	ROLE	UNIT	EDIT	DELETE
admin1 admin1	empressadmin@empressdigital.com	SUPER ADMIN	EMAM		
Anoop Thomas	anoop@empressmam.com	UNIT ADMIN	eMAM Demo		
David S Miller	dave@empressdigital.com	UNIT ADMIN	eMAM Demo		
David Vill	david@empressmam.com	UNIT ADMIN	eMAM Demo		
Sharun K K	sharun@empressmam.com	UNIT ADMIN	eMAM Demo		
eMAM Feeder	feeder@empressmam.com	UNIT ADMIN	eMAM Demo		

Edit/Delete existing User

4. Storage Configuration

In the eMAM system you may have as many Storage Configurations as you wish. Storage Configuration option enables the super administrator to configure the online folders, manage S3 configuration etc. In Storage Configuration, the folder name, original location, low resolution folder path, low resolution virtual path, status and storage location are displayed. The Super Administrator can 'Edit' or 'Delete' any of the folders. The Super Administrator can also create new folders and provide necessary information including the name, path, login details, threshold details and servers. The Task Manager is a server component in eMAM. It is responsible for operations like "purge", "auto archive", and "auto purge", so it should be associated with a storage profile.

UNIT ID	UNIT NAME
1	EMAM
+	emam 5.0
+	eMAM Insights

Storage Configuration

Click the "+" to open/edit the Storage configuration for the UNIT.

4.1 Manage Online Disk – Folders

ID	STORAGE PROFILE	ORIGINAL LOCATION	PROXY LOCATION	PROXY VIRTUAL PATH	STATUS	S3	EDIT	DELETE
1	51.emamcloud	E:\emamfolders\unit1\o	E:\emamfolders\unit1\p	http://51.emamcloud.com/emamfolders/unit1/p/	✓	☁	✎	✖
2	AWS CACHE STORAGE	E:\emamfolders\unit1\awso	E:\emamfolders\unit1\awsp	http://51.emamcloud.com/emamfolders/unit1/awsp	✓	☁	✎	✖
8	Google - GCS CACHE STORAGE	E:\emamfolders\unit1\gcso	E:\emamfolders\unit1\gcsp	http://51.emamcloud.com/emamfolders/unit1/gcsp	✓	☁	✎	✖
10	Wasabi Cache Storage	E:\emamfolders\unit1\wasabi\o	E:\emamfolders\unit1\wasabi\p	http://51.emamcloud.com/emamfolders/unit1/wasabi/p...	✓	☁	✎	✖
12	WebDAV-LAN-DMZ-Test	\\D96NF842\WebDAV\original\	\\D96NF842\WebDAV\proxy\	http://51.emamcloud.com/WebDAV/proxy/	✓	☁	✎	✖
15	lamda-test-storage	E:\emamfolders\unit1\lambda-single-original	E:\emamfolders\unit1\lambda-single-proxy	http://51.emamcloud.com/emamfolders/unit1/lambda-s...	✓	☁	✎	✖

This can be considered as the cache location to store the files before performing the multi-part upload to S3. If the *Elemental Media Convert* or *Net-X-Code* is used as the transcoder, files will be directly uploaded to S3.

- Folder name**- Enter the folder name to identify the storage location.
- Original Location**- Physical path to high res (original) folder.
- Low-Res Folder Path**- Physical path to low-res folder where the Ingest Service copies all proxy files.
- Low-Res Virtual Path**- Virtual URL path pointing to the proxy location
- Status**- This shows the status of the folder configuration. If the folder configuration is

successful, it will show green tick  symbol.



It will show red cross  symbol if no server was selected or if there are configuration errors.

- S3- Amazon S3 (Simple Storage Service)** is an online file storage web service.
-  allows management of the High Res and Low Res S3 Buckets.
- Edit**-  Option to edit.
- Delete**-  Option to delete.

The super administrator can also create new folders with the necessary information such as name, path, login details, threshold details and servers. The Task Manager is a server component in eMAM. It is responsible for operations like "purge", "auto archive", "auto purge", so it should be associated with storage.

Storage Configuration

- Folder Name**- Enter the folder name to identify the storage location.
- Enable Original File Download (Checkbox)**- Option to enable the original file download from the storage. In the eMAM Director interface, on click on an individual asset download, original file download option is displayed along with proxy.



- High-res File Folder**- Physical path to original folder. This can be a CIFS/SMB or local path accessible from the eMAM application server. *(Make sure the folder has read/write access for the eMAM windows user).*
- High-res Virtual Path** - Virtual URL path pointing to the original folder. A web server like IIS or Apache can be used to form an HTTP virtual path.
- Enable FTP Download (Checkbox)**- Option to enable the FTP download for the storage. If FTP Download option is enabled, then these can be chosen:
 - Host Name** - FTP host server
 - Username** - FTP username
 - Password** - FTP password
 - Port** - FTP port

Enable FTP Download.

Host Name: User Name:

Password: Port:

Enable SSL

- f. **Enable Highspeed Download (Checkbox)**- * If *Enable Highspeed Download* option is enabled, these options can be configured. Customer should have *File Catalyst* server license to use this service.
- i. **Download Software**- File Catalyst
 - ii. **Host Name** - Host server
 - iii. **Username**- Username
 - iv. **Password**- Password
 - v. **Port**- Port
 - vi. **Transfer Mode**- UDP, TCP or AUTO
 - vii. **Enable SSL**- **Enable** checkbox to enable SSL.

Enable Highspeed Download.

Download software:

Host Name: User Name:

Password: Port:

Transfer Mode: **Enable SSL**

- g. **Low-Res. Folder Type**- It can be *FTP, Network, Local, File Catalyst, Mac volume, Bucket*.
- h. **Low-Res Folder** – Enter physical proxy location. This can be a CIFS/SMB or local path accessible from the eMAM application server.
- i. **Low-Res Virtual path** – Enter virtual URL path pointing to proxy location. A web server like IIS or Apache can be used to form an HTTP virtual path.
- j. **Streaming Virtual Path** – Enter streaming virtual path. *Optional - Used with old Flash player.*
- k. **Low Res. Host IP** – IP address of the storage server.
- l. **Low Res. Login** – Enter *Username*
- m. **Low Res. Password** – Enter *Password*
- n. **Low Res. Port** - Enter port no.
- o. **Archival Threshold** –Enter archival threshold no. (in days). Automatic archive will happen after the specified number of days. Default value 0 which means assets will remain there unlimited no. of days unless set to any other no. of days.
- p. **Purge Threshold**- Files in the recycle bin will be fully purged after the specified number of days (default is 0 (unlimited)). *(relevant only for old Admin interface)*
- q. **Archive Purge Threshold** - This is the number of days to keep the content in the Original High-Resolution location online after Archiving before the system deletes the content from the Original location. After the configured number of days, copy of the archived assets from nearline storage, will be automatically deleted. Then the content only resides in the Archive only. *(default is 0 (unlimited) which means assets will remain there forever unless set to any other no. of days)*

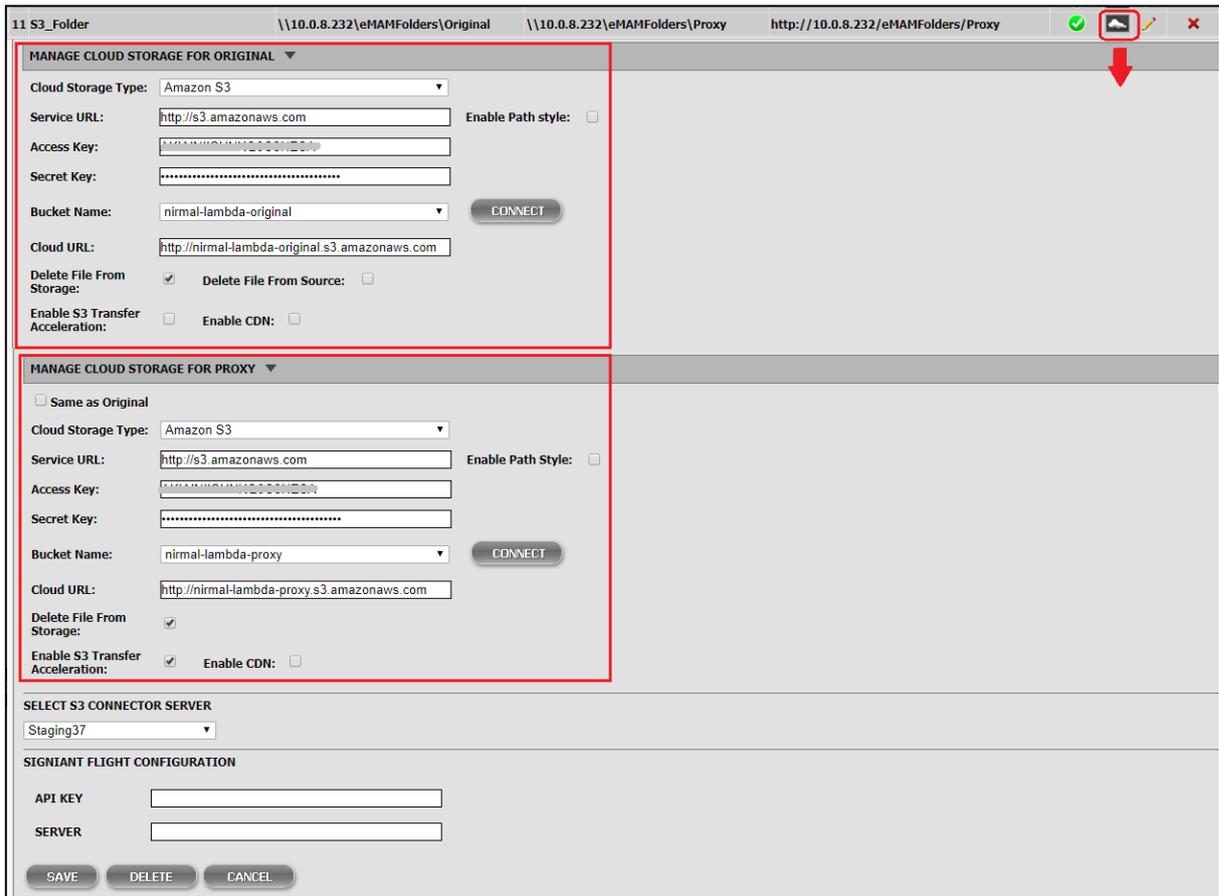
- r. **Volume Name**- Enter the name with which the volume is mounted. This is used for the Premiere panel from MAC to access eMAM online folders.
- s. **Excluded extension(s) for archive purge**: Key in all the file extensions (*multiple values separated by semicolon*), which needs to be filtered out from the purge queue after archive operations (*when immediate archive with delete file flag is enabled or archive purge threshold criteria is met*) and these types of original files will not be deleted from the eMAM storages.

-
- t. **Select Servers** - Servers to be associated with the storage profile. (*Displays list of servers created in the Server Management tab*)
 - u. **Select Task Manager Server**- Task Manager is another eMAM component service used to do the purge etc. There can be multiple task manager components running in different servers. Among those servers, the appropriate server should be chosen for the storage profiles.
 - v. **Select Upload Manager URL**: For Ingesting content into eMAM, you may use the browser-based upload tool. Upload manager URL can be updated as a component URL for 'eMAM transcode manager' component under Server Management tab [which can be used to associate with Storage Profiles here](#).

-
- w. **Auto create sub folders**- Helps you to auto manage the storage profiles. You can create sub folders to avoid time delay when large no. of files gets stored in a single storage profile. Enable Auto Create Sub Folders checkbox and sub folders will be created automatically for both original and proxies when it meets the condition configured in the respective storage profiles. Users can also configure the limit type and its value. This will eliminate any delayed response in previewing or processing media managed by eMAM.

4.2 S3

Click on S3  and below tab opens up. You can manage Cloud storages for Original and Proxy files. Cloud storage type like **Amazon S3**, **Azure BLOB**, **IBM Cloud Object Storage**, **NetApp Storage GRID**, **Google Cloud Storage** and Others can be selected. Enter Access key, Secret key, Cloud URL, Bucket name, Cloud steaming URL etc. Select/Deselect '*Delete File From Storage*' and *Delete File from Source* as required.



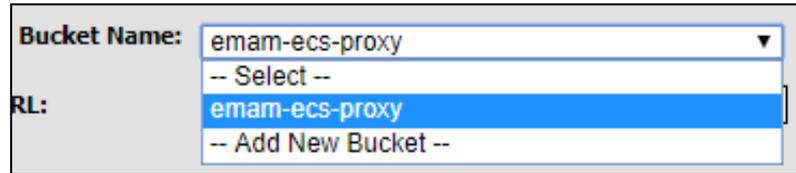
Manage Cloud Storage for Original & Proxy

- a. **Cloud Storage Type:** eMAM now supports object storage integrations such as Google Cloud Storage, IBM Cloud Object Storage, NetApp Storage GRID in addition to Amazon S3 and Azure BLOB Storage.



- b. **Storage Account:** Enter storage account (Azure BLOB).
- c. **Container:** Enter container details (Azure BLOB).
- d. **Service URL:** The URL provided by the object storage system acts as the S3 API endpoint (IBM Cloud Object Storage).
- e. **Enable Path style:** Allows you to switch between the Virtual-style and Path-style Configuration of URL.
- f. **Access Key:** Enter Primary or secondary key for that storage account .
- g. **Secret Key:** Enter the Secret Key for that storage account and click on **Connect** button.
- h. **Cloud URL:** Enter the *https* address for the storage.
 - For e.g.: <https://123.blob.core.windows.net/lr5>
Here 123 is storage account and lr5 is container
 - For S3: <http://bucketname.s3-accelerate.amazonaws.com>

- i. **Cloud Streaming URL:** Same as *Cloud URL*
- j. **Connect:** Click on *Connect* button to connect to server
- k. **Bucket Name:** Select the bucket name. You can also add new buckets.



Bucket Name: emam-ecs-proxy ▼

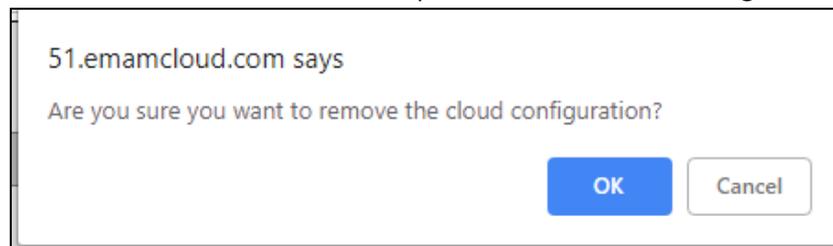
RL: -- Select --

emam-ecs-proxy

-- Add New Bucket --

- l. **Enable S3 transfer Acceleration:** If enabled, S3 upload/transfer acceleration is enabled at the bucket level for lambda ingest profiles.
 - m. **Enable CDN:** If enabled, CDN URL is used for preview and download. If disabled, signed URL is used for preview of assets in cloud.
 - n. **Delete File from Storage:** If enabled, original file will be deleted from the Managed Storage. (*applicable both for Original & Proxy*).
 - o. **Delete file from Source:** If enabled, original files will be deleted from source location. (*applicable only for Original*).
- Note:** If **Delete File from Storage** is enabled both for Original and Proxy, additional tab appears to enter Signiant Flight details. Signiant Flight can be used to accelerate the movement of data into and from Amazon S3 storage buckets. Enter **Signiant API Key** and **server** details.
- p. **Select S3 connector server:** Choose the server name where eMAM S3 service is installed.
 - q. Click on **“Save”** to save the changes.
 - r. Click on **“Delete”** button to delete the existing storage configuration. Note: Storage profiles can be deleted only if all the below conditions are met:
 - There should be no assets pending in the Cloud queue.
 - All the assets in the Cloud storage must be either restored to eMAM Managed Storage location or must be cleared from the Cloud storage.

You will be now asked to reconfirm the delete operation with below message:



51.emamcloud.com says

Are you sure you want to remove the cloud configuration?

OK Cancel

If any of the above-mentioned conditions are not met, you will be notified with a Cloud cannot be deleted message.

- s. Click on **“Cancel”** button to discard the changes made.

Manage High Res. S3 Bucket

- *Access Key- S3 access key
- *Secret Key- S3 secret key
- *Cloud URL- Enter the http address for the S3 storage. Usually, <http://bucketname.s3-accelerate.amazonaws.com>
- * Bucket Name- Unique name for the bucket which is created using the Amazon S3 console.
- * Enable Path style: Allows you to switch between the Virtual-style and Path-style Configuration of URL.

These are settings from the Amazon S3 Web Console to upload high res to the Amazon S3 Cloud bucket.

Manage Low Res. S3 Bucket

- “Same as High Res S3 Bucket” uses the same settings as the High-Res Bucket.
- * Access Key- S3 Access Key. Enter primary or secondary key for that AWS storage account.
- * Secret Key- Enter the *Secret Key* (S3 secret key) and click on **Connect** button.
- *Cloud URL- Enter the http address for the S3 storage.
Usually, <http://bucketname.s3-accelerate.amazonaws.com>
- * Bucket Name- Unique name for the bucket which is created using Amazon S3 Console.
- * Enable Path style: Allows you to switch between the Virtual-style and Path-style Configuration of URL.

Cloud Streaming URL

URL to the RTMP distribution created over the S3 bucket.

S3 Connector Server

S3 Connector is another eMAM component service used to upload high res and low-res files to Amazon S3 bucket. There can be multiple S3 connector components running in different servers. The appropriate server should be chosen here.

Storage Configuration settings can be saved or discarded with ‘Save’ or ‘Cancel’ button. Storage configuration can be edited using  and deleted with .

5. Ingest Profiles

The super administrator can define profile names, ingest details, and other project details. You can also select the transcoder to be used, enable or disable web upload for the given ingest profile, restrict duplication of files, and enable automatic archive of the ingested assets immediate.



Ingest Profiles Configuration

5.1 Manage Transcode Servers

Create different transcode profiles based on different transcode servers.

TRANSCODE PROFILE NAME	TRANSCODE SERVER IP	TRANSCODE TYPE	EDIT	DELETE
Net-X-Convert	localhost	FFMPEG		✗
AME LOCAL	localhost	AME		✗
Elemental	localhost	MediaConvert		✗
MediaConvert	127.0.0.1	MediaConvert		✗
AME	localhost	AME		✗

Ingest Profiles -Manage Transcode Servers

- Transcode Profile name:** Enter the server name where the Transcode Service is installed.
- Transcode Server IP/Host Name:** Enter the IP of the transcode server.
- Transcode Server:** Select from the list of transcode servers.

Note: Lambda only supports Elastic Transcoder and Media Convertor transcoder types.

- d. **Transcoder Type:** Select from the various Transcoder types available in the drop-down list based on the transcode server selected.

List of Transcoder type

Lambda only supports Elastic Transcoder and Media Converter transcoder types.

For **Transcoder Type**, select:

- 1) **Harmonic ProMedia Carbon**, define the following:

Screen for Harmonic ProMedia Carbon transcode type

- Nexus Server IP:** IP of the server where transcode service is installed
- Nexus Server Port:** By default, this is set to 1120
- Video GUID:** This is obtained from Harmonic Carbon Coder admin
- Audio GUID:** Required audio format. GUID can be obtained from Carbon Coder admin
- Thumbnail GUID:** configuration to generate thumbnails

2) Command Line, define the following:

The screenshot shows the configuration interface for a transcoder. At the top, there are fields for 'Transcode Profile Name *', 'Transcode Server IP / Host Name *', 'Transcode Server *' (set to 'EMAMNYFS01'), and 'Transcoder Type *' (set to 'Command Line'). Below these are sections for 'Video Proxy Settings', 'Audio Proxy Settings', and 'Video Thumbnail Settings'. The 'Image Proxy Settings' section includes 'Max Width' (640), 'Max Height' (360), 'Enable Auto', 'Orientation', and 'Watermarking'. 'AV ingest threads' and 'Otherfiles ingest threads' are both set to '1'. A 'Parameters' field with a tooltip icon is highlighted with a red box.

Screen for Command Line transcoder type

- i. **Video Settings:** -i "eSourceFile" -y -s 640x360 -b:v 1024k -vcodec libx264 -r eSourceFrameRate -movflags faststart -pix_fmt yuv420p "eDestPath\%eUUID_1.mp4"
- ii. **Audio Settings:** -i "eSourceFile" -y -ab 128k "eDestPath\%eUUID_2.mp3"
- iii. **Thumbnail Settings:** -i "eSourceFile" -y -ss 00:00:02.000 -f image2 -vf scale=176:-1 -vframes 1 "eThumb"
- iv. **Sequence Param:** applicable only for image sequences like dpx, tiff etc. For image sequences, mention the number of digits to be appended after the filename for each thumbnail. e.g.: If you need UUID_000, UUID_001, give %3d as the sequence parameter.
- v. **Parameters (Tooltip):** Click on the tooltip for more info on parameters.

The tooltip window contains the following text:

Use system variables in place of fields that have to be provided by the system. Available system variables are:

- eSourceFile** : Complete source file path
- eDestPath** : Destination location where the destination files will be created
- eUUID** : Unique Id for the file. Recommended to have eUUID in the file name
- eVideoProxy** : This variable will be replaced with actual proxy path and UUID filename. For example, "\\10.0.1.10\emamfolders\clientname\proxy1\d9cc7d89-bfd0-430d-bd5b-ba3250c105f7_1.MP4 Please ensure that, necessary parameters are included to make H.264 proxy with AEC audio. refer <http://empressmam.com/formatguide.htm>
- eAudioProxy** : This variable will be replaced with actual proxy path and UUID filename. For example, "\\10.0.1.10\emamfolders\clientname\proxy1\d9cc7d89-bfd0-430d-bd5b-ba3250c105f7_2.MP3 Please ensure that, necessary parameters are included to make .mp3 audio.
- eThumb** : This variable will be replaced with actual proxy path and UUID filename. For example, "\\10.0.1.10\emamfolders\clientname\proxy1\d9cc7d89-bfd0-430d-bd5b-ba3250c105f7_0.JPG Please ensure that, necessary parameters are included to make .jpg images.
- eSourceFrameRate** : FrameRate of the submitted source file

3) Telestream Vantage, define the following:

- i. **Webservice Url:** <http://localhost/eMAMVantageService>
(This is the base address of eMAMVantageService in the Ingest Manager's Config file. It will be used by Delivery Service for Vantage Delivery. The localhost can be replaced with the machine IP if needed)
- ii. **Default Parameters**
 - **Workflow ID:** ID of the Vantage workflow to be used by Ingest Manager.

Define details

Variable Name	Type	Value	Control		
shibin1	String	33	Unit Admin		
test	Int	44	User		
Shibin	Int	11	Super Admin		
DeployLocation	String	\\10.0.20.95\Test\vantage	User		
NewDeployLocation	String	\\10.0.8.166\Bibin	Unit Admin		
DeployName	String	VantageaSharun	Unit Admin		

List of variables created with edit & delete option

Option to create variables

SAVE CANCEL

Screen for Telestream Vantage transcoder

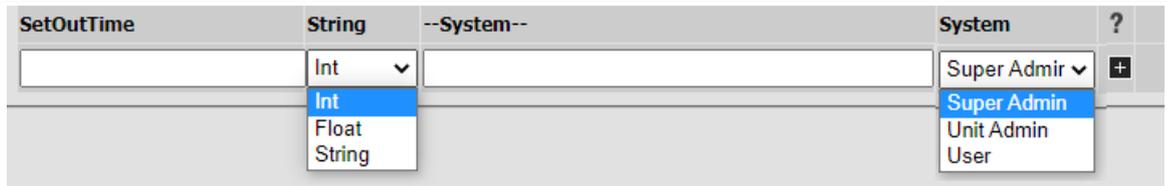
- iii. **Define Variables:** The user can define variables in the workflow. In eMAM Ingest profiles there are two variable options.
 - ✓ **System variables** -These are system defined variables that a user cannot change the value. This has already defined the basic eMAM workflow. Click on **Show System Variables** to view below:

Define Variables

Hide System Variables

Variable Name	Type	Value	Control	
ProxyPath	String	--System--	System	?
eMAMUUID	String	--System--	System	?
FileType	String	--System--	System	?
TemporaryFolder	String	--System--	System	?
FileName	String	--System--	System	?
LocationType	String	--System--	System	?
DeliveryLocation	String	--System--	System	?

- ✓ **User defined variables** - In addition to the basic workflow, the user can add their own actions to modify the workflow. Once these variables are defined in the ingest profile, eMAM Ingest manager will submit the job with these variables to the vantage transcoder engine.



To provide values for those variables, add them using + icon. System variables are reserved for eMAM services. The user can't add or edit those variables.

- **Variable Name**- Name of the Vantage Variable used in the workflow
- **Type**- Int, string etc.
- **Value**- Value for the variable
- **Control**- It can be one of the following:
 - Super Admin- Only the super admin can modify the values of these variables. They won't be available for editing in Feeder.
 - Unit Admin- Super Admin or Unit Admin can modify these variables. They will be available in Feeder for editing only if the logged in user is a Unit Admin
 - Unit User- Super admin/unit admin/ unit user can modify these variables. They will be available for editing in Feeder.

4) **Harmonic WFS:** Define the following:

- i. **Web Service URL:** Web service url hosted on the Harmonic WFS Server.
- ii. **Workflow ID:** Workflow ID of the WFS to be used by the Ingest Manager
- iii. **Video Preset:** WFS transcode pre-set for creating h.264 mp4 proxy.
- iv. **Audio Preset:** WFS pre-set for creating mp3 audio proxy for audio files.
- v. **Thumbnail Preset:** Key frame exporter pre-set for extracting thumbnails from videos
- vi. **Closed Caption:** WFS pre-set for extracting the closed caption as TTML file from video files.
- vii. **AV Ingest Threads:** Number processing threads to be initialized in eMAM Ingest Manager to process audio and video files. This is the number of simultaneous jobs that the Ingest Manager will submit to the given WFS server.
- viii. **Other files ingest Threads:** Number of processing threads to be initialized in the eMAM Ingest Manager to process all the files other than audio and video.



Screen for Harmonic WFS transcoder type

5) **Adobe Media Encoder (AME):** Define the following parameters:

Transcode Profile Name *	<input type="text"/>
Transcode Server IP / Host Name *	<input type="text"/>
Transcode Server *	EMAMNYFS01
Transcoder Type *	Adobe Media Encoder(AME)
AME IP *	<input type="text"/>
AME Port *	8008
Video Preset	Choose File No file chosen
Audio Preset	Choose File No file chosen
Thumbnail Preset	Choose File No file chosen
Image Proxy Settings	Max Width <input type="text" value="640"/> Max Height <input type="text" value="360"/> <input type="checkbox"/> Enable Auto <input type="checkbox"/> Enable Watermarking
AV ingest threads	<input type="text" value="1"/>
Otherfiles ingest threads	<input type="text" value="1"/>

- i. **AME IP:** Enter AME IP
- ii. **AME Port:** (by default 8008 value appears)
- iii. **Video Preset** – Preset file with extension .epr. Choose a file or download a template.
You can rename, edit and make changes to this Preset by importing this file into Adobe Media Encoder. After making the necessary changes (such as, resolution, format, start time etc.) you can export and re-upload that file back to eMAM Trans-code server and the changes will be reflected after the restart of the Ingest manager.

You can also refer below article on creating and exporting the presets in AME:
<https://helpx.adobe.com/in/media-encoder/using/custom-encoding-presets.html>

- iv. **Audio Preset** – Preset file with extension .epr. Choose a file or download a template.
- v. **Thumbnail Preset** – Preset file with extension .epr. Choose a file or download a template.

6) **Net-X-Code:** Define the following:

Transcode Profile Name *	NetXCode
Transcode Server IP / Host Name *	10.0.8.231
Transcode Server *	WIN-LPTCGE012CN
Transcoder Type *	net-X-code
Client IP *	<input type="text"/>
Port *	1080
Video Profile *	<input type="text"/>
Audio Profile *	<input type="text"/>
Thumbnail Timecode *	<input type="text"/>

- i. **Client IP:** IP of the server where Net-X-Code is running.
- ii. **Port:** Port through which Ingest Manager communicates with Net-x-Cde. Default port value is 1080.
- iii. **Video Profile:** The target profiles to which the video assets should be converted. (*this is same as the video guild or video settings in other transcoders*)
- iv. **Audio Profile:** The target profiles to which the audio assets should be converted. (this is same as the audio guild or audio settings in other transcoders)
- v. **Thumbnail Timecode:** Time code from which the thumbnail should be extracted for video assets. This will be in format hh:mm:ss:ff.
- vi. **Image Proxy Settings:**

The screenshot shows the 'Image Proxy Settings' configuration interface. At the top, there are input fields for 'Max Width' (639) and 'Max Height' (360), along with an 'Enable Auto Orientation' checkbox. The 'Watermarking' section is highlighted with a red circle, showing the 'Enable Watermarking' checkbox is checked. Below this, there are radio buttons for 'Position of Watermark' (Top, Bottom, Left, Right), 'Offset' (X, Y), and 'Adjustment' (X, Y). A 'Watermark Image Name' field is also present.

- Set the **Max Width** and **Max Height** of the image proxy. Proxy file will be created with the same aspect ratio as the original image without exceeding the max width / max height values.
- **Enable Auto Orientation:** Enabling this option automatically to handle the 90-degree rotation of the image proxy based on the EXIF values.
- **Enable Watermarking:** Enabling this option displays additional parameters to set the watermark mage, position, offset and transparency.

- vii. **AV Ingest Threads:** No. of audio/video files that should be processed at a time
- viii. **Other files Ingest Threads:** No. of other files (doc, pdf, etc.) that should be processed at a time.

Note: Net-X-Code now supports Partial Delivery from Amazon S3 cloud storages. For Partial delivery, change the cloud virtual path in S3 configuration to path style format.

E.g.: virtual path should be like: <https://s3.amazonaws.com/bucketname>

7) ATEME- TITAN File: Define the following:

The screenshot displays the configuration for an ATEME-TITAN File transcoder. Key fields include:

- Transcode Server:** ATEME
- Transcoder Type:** Ateme-Titan File
- API Endpoint:** http://192.168.1.110/restapi
- Authorization Token:** D3841083-AB37-5F02-76B8-4158F2107325
- Job Preset:** XML metadata including job version, time, name, and source information.
- Image Proxy Settings:** Max Width (640), Max Height (360), and an unchecked 'Enable Watermarking' checkbox.
- AV ingest threads:** 1
- Otherfiles ingest threads:** 1

- i. **Transcode Server:** Select the transcode server available from the list. (Note: Lambda type is not applicable in the case of ATEME-Titan File)
- ii. **Transcoder Type:** Select the transcoder type as ATEME-Titan File.
- iii. **API Endpoint:** Provide the ATEME Titan File REST API Endpoint configured by ATEME to which the communication can be established.

- iv. **Authorization Token:** Provide the Token for REST API that can be obtained from the Titan File GUI. The authorization token is a simple JWT Token which just acts as an API key to grant access as a specific user within the system.
- v. **Job Preset:** Enter the job preset obtained from Titan File Job Composer. You can also select and upload the preset in XML file format and preview the contents here. Option to set presets as XML. Click on  to upload job XML's.
- vi. **AV ingest threads:** Enter the number of concurrent ingest threads for Audio-Video processing as required.
- vii. **Other files ingest threads:** Enter the number of concurrent ingest threads for Images and Other files processing as required.
- viii. Click on **Save** button to save the changes.

8) Capella Cambria FTC: Define the following:

Transcoder Type *	Capella Cambria FTC					
API Endpoint	http://localhost:8649/CambriaFC/v1					
Video Preset	<pre><JobDescr Description="FTC UI (Preset: Preset-20220303-082903)" JobTag="" NumberOfRetries="2" Priority="5" ProcessArchitecture="x64" Submitter="Cambria"></Job</pre>					
Audio Preset	<pre><JobDescr Description="FTC UI (Preset: Preset-20220303-082903)" JobTag="" NumberOfRetries="2" Priority="5" ProcessArchitecture="x64" Submitter="Cambria"></Job</pre>					
Thumbnail Preset	<pre><JobDescr Description="FTC UI (Preset: 2ac61ca9-11bb-4ea2-b5ee-0fd7023ac6cb_0)" JobTag="" NumberOfRetries="2" Priority="5" ProcessArchitecture="x64"</pre>					
Image Proxy Settings	Max Width	640	Max Height	360	<input type="checkbox"/> Enable Auto	<input type="checkbox"/> Enable Watermarking
	AV ingest threads	2		Otherfiles ingest threads	2	

- i. **Transcode Server:** Select the transcode server available from the list. (Note: Lambda type is not applicable in the case of Capella Cambria FTC)
- ii. **Transcoder Type:** Select the transcoder type as **Capella Cambria FTC**.
- iii. **API Endpoint:** Provide the Capella Cambria FTC REST API Endpoint to which the communication can be established.
- iv. **Video Preset:** Capella Cambria FTC transcode pre-set for creating h.264 mp4 proxy.
- v. **Audio Preset:** Capella Cambria FTC pre-set for creating mp3 audio proxy for audio files.
- vi. **Thumbnail Preset:** Key frame exporter pre-set for extracting thumbnails from videos

ix. **Image Proxy Settings:**

Image Proxy Settings

Max Width: 639, Max Height: 360, Enable Auto: , Enable Watermarking:

Watermark Image Name:

Position of Watermark: Offset, Adjustment

Offset X: 0, Y: 0, Transparency: 0%

- Set the **Max Width** and **Max Height** of the image proxy. Proxy file will be created with the same aspect ratio as the original image without exceeding the max width / max height values.
 - **Enable Auto Orientation:** Enabling this option automatically to handle the 90-degree rotation of the image proxy based on the EXIF values.
 - **Enable Watermarking:** Enabling this option displays additional parameters to set the watermark image, position, offset and transparency.
- vii. **AV ingest threads:** Enter the number of concurrent ingest threads for Audio-Video processing as required.
- viii. **Other files ingest threads:** Enter the number of concurrent ingest threads for Images and Other files processing as required.
- ix. Click on **Save** button to save the changes.

For Capella supported import file formats, refer <https://capellasystems.net/products/transcoding/cambria-ftc/supported-formats/>

Below are the transcoder types for **LAMBDA transcoding**:

1) Elastic Transcoder Type:

This transcoder type is **only available for Lambda Transcode server**. **Amazon Elastic Transcoder** can be used for video transcoding in the cloud to convert media files into formats that a range of devices support. Pipelines need to be created or pre-defined with input and output bucket to submit jobs for transcoding. It supports pre-defined transcoding presets, custom transcoding presets, monitoring and management, notifications, thumbnails, captions, visual watermarks etc.

Transcode Server: Lambda

Transcoder Type: Elastic Transcoder

Pipeline Id:

Preset Id:

AV ingest threads: 1

Otherfiles ingest threads: 1

Define the following parameters:

- i. **Pipeline id:** Enter Pipeline id from your AWS account.
- ii. **Preset id:** Enter Preset id from your AWS account.

2) Media Convertor:

This transcoder type is only available for Lambda Transcode server. **Elemental Media Convert** is a file-based video processing service that provides scalable video processing with multiple format supports. Elemental MediaConvert can be for audio transcoding.

Transcode Server	Lambda
Transcoder Type	Media Convertor
Role	<input type="text"/>
Preset Id	<input type="text"/>
AV ingest threads	1
Otherfiles ingest threads	1

Define the following parameters:

- i. **Role:** Enter Role from your AWS account.
- ii. **Preset id:** Enter Preset id from your AWS account.

5.2 Manage Ingest Profiles

Super administrator can define the profile name, ingest details, and GUID for the assets. Xcode Type decides which type of transcoding must be done for the ingest profile. It can be "Managed Transcode", "Proxy ingest", "Original with proxy", "No proxy", "Sidecar XML Ingest" or "InstantAssetIngest (Beta)". The ingest profile can be edited with  and deleted with .

MANAGE INGEST PROFILES

ID	Profile Name	Ingest Folder	Ingest Server	Video GUID	EDIT	DELETE
1	ffmpeg	E:\emamfolders\unit1\i	EMAMNYFS01	-i "eSourceFile" -y -s 1280x720 -b:v 1024k -vcodec		
2	Ingest H.264 MP4 videos to S3	E:\emamfolders\unit1\ip	EMAMNYFS01	-i "eSourceFile" -y -s 1280x720 -b:v 1024k -vcodec		
1002	LOCAL AHE FOR PREMIERE	E:\emamfolders\unit1\localame	EMAMNYFS01	dd239f9c-698c-4418-b682-eb346e4a5142		
1005	ingest MP4 to GCS	E:\emamfolders\unit1\gcsi	EMAMNYFS01	-i "eSourceFile" -y -s 1280x720 -b:v 1024k -vcodec		
1006	XMLingest	E:\emamfolders\unit1\XMLIngest	EMAMNYFS01	-i "eSourceFile" -y -s 1280x720 -b:v 1024k -vcodec		
1008	Original with Proxy	E:\emamfolders\unit1\op	EMAMNYFS01			

Profile Name : <input type="text" value="INGEST PROFILE 27-Sep-2019_005821"/>	User : <input type="text" value="--DEFAULT--"/>
eMAM Ingest Manager : <input type="text" value="--SELECT--"/>	Ingest Path : <input type="text"/>
Asset Folder : <input type="text"/>	Ingest Login : <input type="text" value="emam"/>
Xcode Type : <input type="text" value="ManagedTranscode"/>	Ingest Password : <input type="text" value="....."/>
Transcode Server : <input type="text"/>	Advanced Settings

Manage Ingest Profile screen

- a. **Profile Name-** Name of the ingest profile to identify.
- b. **eMAM Ingest Manager-** Select from the list of eMAM ingest managers configured. (Note: Lambda is used for Artificial Intelligence ingest profiles).

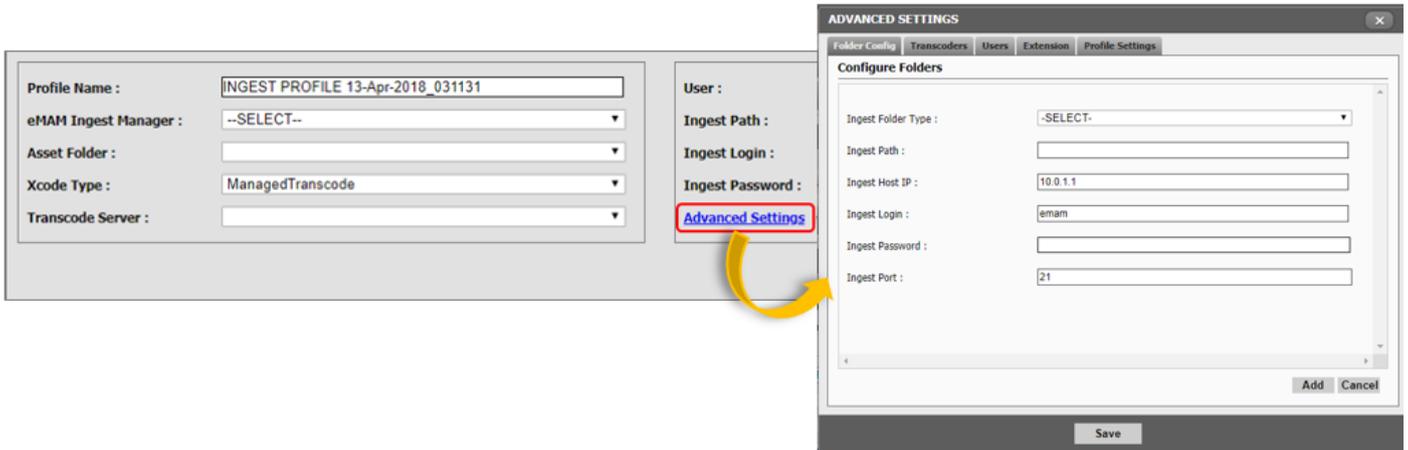
eMAM Ingest Manager :	--SELECT--
Asset Folder :	--SELECT--
Xcode Type :	Lambda
Transcode Server :	EC2AMAZ-H6RJ831
	EMAMSVR_LIVE_INTERNAL
	EMAM-VIRTUALHOS

- c. **Storage Folder**- Storage location to be associated with the ingest profile.
- d. **Storage Folder**- Storage location to be associated with the ingest profile.
- e. **Xcode type**: Decides which type of transcoding must be done for the ingest profile. It can be "Managed Transcode", "Proxy ingest", "Original with proxy", "No proxy" "Sidecar XML Ingest", "InstantAssetIngest (Beta)".

Xcode Type :	ManagedTranscode
eMAM Ingest Manager :	ManagedTranscode
Storage Folder :	ProxyIngest
Transcode Server :	OriginalWithProxy
	NoProxy
	SidecarXMLIngest
	InstantAssetIngest (Beta)

Xcode Type

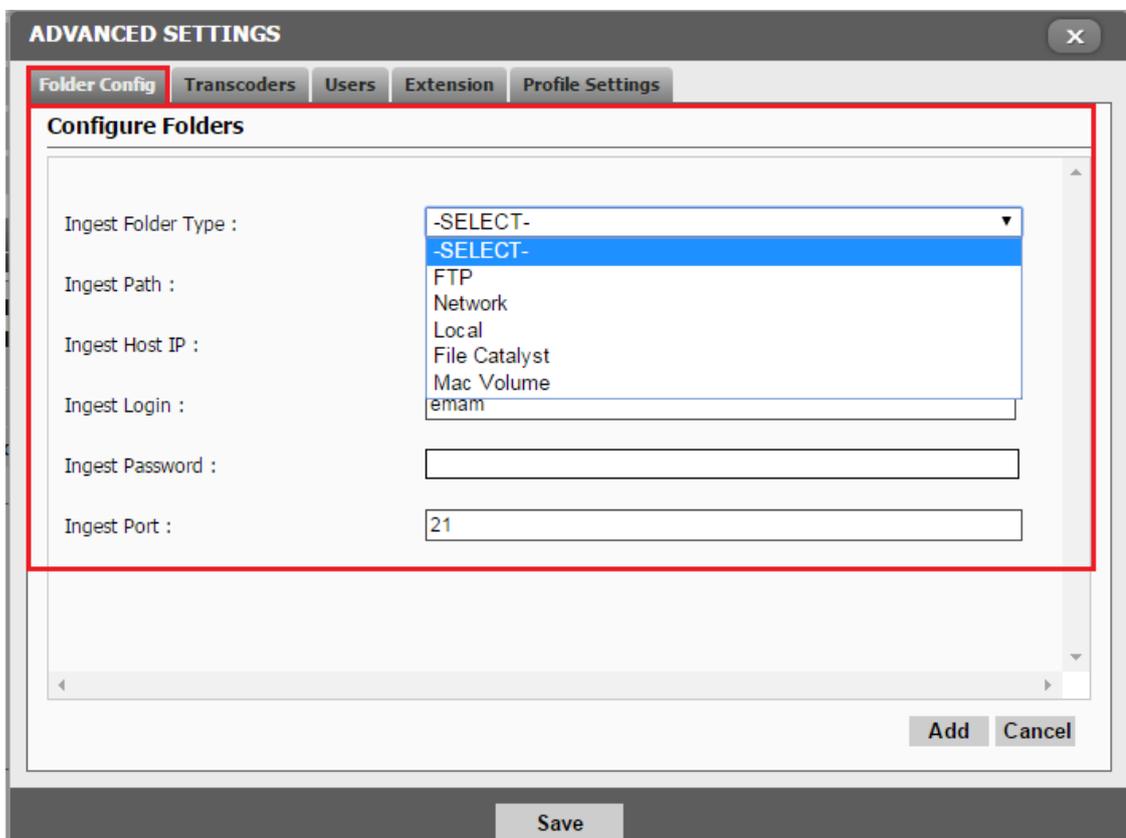
- i. **Managed transcode** indicates that eMAM will send the file(s) to the transcoder and manage the process, triggering generation of needed proxies and keyframes and capturing embedded metadata.
 - ii. **Proxy ingest** indicates that the required proxy is fed into the ingest folder: MP4 H264 for video and MP3 for audio. eMAM will not need additional transcoding: it will use these proxies for browse and search.
 - iii. **Original with proxy** means that all files are put into the Feeder/drop folder with a native copy and a proxy in the correct format with the names filename.xxx and filename.xxx.mp4 (video) or filename.xxx.mp3 (audio).
 - iv. **No proxy** indicates that no proxies will be created for preview and approval. Note that this will disable web-based preview and other features of the MAM system. eMAM will be able to deliver and download these assets.
 - v. **Sidecar XML ingest** will help ingest sidecar XML files.
 - vi. **Instant Asset Ingest** means all the files ingested using this profile will be instantly available in the browse widget after upload. Here only the original file with custom metadata tags are available. Once embedded metadata is also extracted, the ingest is marked as complete. This file can be downloaded and delivered. Note: No proxy is generated here so if required, that needs to be executed as a different workflow.
- f. **Transcode Server**: Select the transcode server created as part of the Manage Transcode Servers section of the Ingest Configuration.
 - g. **User**- User to be associated with the ingest profile.
 - h. **Ingest Path**- Enter the local folder or network path to be configured as the ingest folder.
 - i. **Ingest Login**- Enter the local folder or network path login username.
 - j. **Ingest Password**- Enter the local folder or network path login password.
 - k. **Advanced Settings**: Ingest Profile supports NTFS/CIFS/NFS/FC/FTP configurations on the same ingest profile. Administrators can configure the primary ingest folder in the initial screen which can be either a Local folder or Network folder. Click on Advanced Settings to open a new window with more options.



- i. **Folder Config Tab:** Users can configure the ingest folder using various ingest folder types like **Local folder/UNC path/FTP path/File Catalyst/Mac Volume Path**.

There should be at least one Local path or Network UNC path configured for each ingest profile.

Note: Add root path in the File Catalyst and then the folder path in all the Ingest profiles or else File Catalyst will upload only to the folder available.



- ✓ **Ingest Path:** Enter UNC the path of Ingest folder (\\ Server Name or IP \Directory Name)
- ✓ **Ingest Host IP:** Host Server IP (IP of the server where you created the Ingest Folder)
- ✓ **Ingest Login:** Username.
- ✓ **Ingest Password:** Password.
- ✓ **Ingest Port:** Ingest server port.

- ii. **Transcoders Tab:** The super administrator can override the transcoder server settings here. The transcode server will be selected in the initial screen. Note: *This tab is not available for Instant Asset ingest Xcode types.*

- ✓ **Transcode Server:** Select the Transcode Server from list.
- ✓ **Video Settings:** `-i "eSourceFile" -y -s 640x360 -b:v 1024k -vcodec libx264 -r eSourceFrameRate -movflags faststart -pix_fmt yuv420p "eDestPath\eUUID_1.mp4"`
- ✓ **Audio Settings:** `-i "eSourceFile" -y -ab 128k "eDestPath \eUUID_2.mp3"`
- ✓ **Thumbnail Settings:** `-i "eSourceFile" -y -ss 00:00:02.000 -f image2 -vf scale=176:-1 -vframes 1 "eThumb"`
- ✓ **Image Proxy Settings:**
 - Set the **Max Width** and **Max Height** of the image proxy. Proxy file will be created with the same aspect ratio as the original image without exceeding the max width / max height values.
 - **Enable Watermarking:** Enabling this option displays additional parameters to set the watermark image, position, offset and transparency.
 - **Enable Auto Orientation:** Enabling this option automatically to handle the 90-degree rotation of the image proxy based on the EXIF values.

For **ATEME- Titan File** as transcoder: The job preset is same as that in other transcode servers but here you have the option to override with a different preset settings in the *Advanced settings*.

- ✓ **Job Preset:** Enter the job pre-set obtained from Titan File Job Composer. You can also select and upload the pre-set in XML file format and preview the contents here. The job pre-set configured as part of the *Manage Transcode Servers* section of the *Ingest Configuration* will be over-riden by this pre-set.
- ✓ **Thumbnail selection mode** can be set in 2 ways :
 - Total number of files: Total number of thumbnails expected to be created from the whole file.
 - Time period in seconds. Enter the time period in seconds for which the thumbnails must be generated continuously to the end of file. This is the interval at which the thumbnails should continuously get captured.

You can also create different platforms here:

Platform Name	Transcode Preset	
eMAM Proxy		
Edit Proxy		

To create a new platform, click on ,

Configure Other Platform Options

Platform Name :

Platform Agents :

Transcode Preset:

Platform Location :

Platform Options : Playback Premiere Download

- Platform Name: Enter platform name
- Transcode Preset: Enter the preset for the platform you wish to create
- Platform Location: Choose *Original* or *Proxy* location- where you wish to save these platform files
- Platform Options: Enable as required- *Playback, Premiere, Download*.

iii. **Users Tab:** The super admin can associate multiple users to the ingest profile here. The default user can be selected in the initial screen.

ADVANCED SETTINGS

Folder Config | Transcoders | **Users** | Extension | Profile Settings

Configure Users

Select All

alex@empressmam.com test@emam.com anisha@empressmam.com

rincyc@empressmam.com anishamthomas@yahoo.com jithin@empressmam.com

anishamthomas@gmail.com

iv. **Extension Tab:** Extension tab helps to define the file types to eMAM system. Based on the file types entered in each section, eMAM system will process those files accordingly. For e.g. If you add .mov in the video section, then eMAM will consider the .mov files as video files and will be transcoded accordingly. The default extension configuration can be overridden here. Key in the extension configs for various formats including excluded values and patterns.

ADVANCED SETTINGS

Folder Config | Transcoders | Users | **Extension** | Profile Settings

Configure Extensions

Container value :

Video value :

Audio value :

Image value :

ImageSeq value :

Document value :

MSFiles value :

XMPFiles value :

Excluded value :

Excluded pattern :

Excluded Folder pattern :

Save

- ✓ Container values are extension that are dynamic i.e., either it can be a video or an audio.
 - ✓ Video values are video file extensions like .mov, .mp4, .avi etc.
 - ✓ Audio values are audio file extensions like .mp3, .mp2, .wma, .wav etc.
 - ✓ Image values are image file extensions like .jpg, .jpeg, .psd.
 - ✓ Image sequence values like .dpx, .tiff etc.
 - ✓ Document values like .rtf etc.
 - ✓ MS Files value are Microsoft document file extensions which can be processed using Microsoft office DCOM config and make PDF proxies.
- v. **Profile settings Tab:** Associate *Project, Category and Metadata Set* to the new ingest profile. Enable or disable flags like **Archive the asset immediately after ingest, Restrict duplicate files in the system, Enable Watch folder ingest-** (Unchecking the option will disable the Enable Polling option), **Enable Polling, Is Notify** and **Enable MD5 Checksum** can be configured here.

ADVANCED SETTINGS

Folder Config Transcoders Users Extension **Profile Settings**

Configure Profile

Project: --DEFAULT--

Category: --SELECT--

Metadata Set: --SELECT--

Archive the asset immediately after ingest

Restrict duplicate files in the system

Enable WatchFolder Ingest

Enable Polling

Is Notify

Enable MD5 Checksum

Notifications:

Save

Note:

- If the **Watch folder ingest** is enabled, the ingest manager will start polling the files and process it. By default, "Enable WatchFolder Ingest" and "Folder Polling" options will be enabled in profile settings.
- If **Is Notify** option is enabled, the user who ingests the file, gets a notification email (by default) on ingest completion. Also, if additional email ids are entered in the Notification field, an email notification is sent to those email ids too. For the ingest notification, the eMAM ingest manager config should be having a valid SMTP details.

Click on '**Save**' to save the Advanced Settings changes.

Note: Changes made in the Ingest profile will get reflected only if it is followed by restart of the eMAM Ingest Manager service.

6. Delivery Profiles

It is used for delivery profile management such as creating or editing the delivery profiles. The Super Administrator can choose the profile name, set Preset IDs for audios and videos, select delivery type as Network, FTP or SAN, specify delivery type, and select delivery server. The Super Administrator can also do settings for notifications and downloads.



Delivery Profile main screen

6.1 Manage Transcode Servers

- i. **Transcode Profile Name**- Name of the server where the transcode service is installed.
- ii. **Transcoder Server IP/Host Name**- IP of the server where transcode service is installed.
- iii. **Transcode Server**: Select from the list of transcode servers available.

Transcode Server *	Lambda
Transcoder Type *	--SELECT--
Role *	Lambda
	EC2AMAZ-0E5DVGP

- iv. **Transcoder Type**: Based on the transcode server selected, below transcoder types will be displayed:

Transcoder Type *	Harmonic ProMedia Carbon
Nexus Server IP	Harmonic ProMedia Carbon
Nexus Server Port	Command Line
Video GUID	Telestream Vantage
Audio GUID	Harmonic WFS
	net-X-code
	Ateme-Titan File
	Capella Cambria FTC

1) **Elemental Media Convert**, define the following: (Lambda Transcoder)

Transcode Profile Name *	Elemental Media Convert
Transcode Server IP / Host Name *	localhost
Transcode Server *	Lambda
Transcoder Type *	Elemental Media Convert
Role *	arn:aws:iam::430347186458:role/emam-rol
Preset Id *	2-df2440_260p

- a. **Role:** Enter *Role* from your AWS account.
- b. **Preset id:** Enter *Preset id* from your AWS account.

2) **Harmonic ProMedia Carbon**, define the following:

Transcode Profile Name *	Harmonic ProMedia Carbon		
Transcode Server IP / Host Name *	localhost		
Transcode Server *	EMAMNYFS01		
Transcoder Type *	Harmonic ProMedia Carbon		
Nexus Server IP	localhost		
Nexus Server Port	1120		
Video GUID			
Audio GUID			
Thumbnail GUID			
Image Proxy Settings	Max Width	640	Max Height
			360
	<input type="checkbox"/> Enable Auto	<input type="checkbox"/> Enable	
	Orientation	Watermarking	

- a. **Nexus Server IP-** Same as Transcoder Server IP
- b. **Nexus Server Port-** By default this is set to 1120
- c. **Video GUID-** Obtained from carbon coder admin
- d. **Audio GUID-** Obtained from carbon coder admin
- e. **Thumbnail GUID-** Obtained from carbon coder admin

3) **Command Line**, define the following:

Transcode Server Name			
Transcode Server IP / Host Name			
Transcoder Type	Command Line		
	App Path	Parameters	Sequence Params
Video Settings			
Audio Settings			
Thumbnail Settings			
<input type="button" value="SAVE"/> <input type="button" value="CANCEL"/>			

- Video Settings**- Specify the app path for the video transcoding
- Audio Settings**- Specify the app path for the audio transcoding
- Thumbnail Settings**- Specify the app path for thumbnail generation (*Delivery service doesn't generate thumbnails, so this field can be left blank if this transcode server is used for delivery only*). Video, audio and thumbnail parameters are the preset settings of the transcoder used to create video proxy, audio proxy and thumbnails Example: For FFMPEG transcoding, you must use the following parameters:
- Video settings parameter:** `-i "eSourceFile" -y -s 640x360 -b:v 1024k -vcodeclibx264 -r eSourceFrameRate -movflags faststart -pix_fmt yuv420p"eDestPath\eFileName.mp4"`
- Audio settings Parameter:** `-i "eSourceFile" -y -ab 128k eDestPath\eFileName.mp3"`
- Thumbnail settings parameter:**
- Sequence Params**- (*Delivery service doesn't generate thumbnails, so this field can be left blank if this transcode server is used for delivery only*).

4) Net-X-Code, define the following:

Transcode Profile Name *	<input type="text" value="NetXCode"/>
Transcode Server IP / Host Name *	<input type="text" value="10.0.8.231"/>
Transcode Server *	<input type="text" value="WIN-LPTCGE012CN"/>
Transcoder Type *	<input type="text" value="net-X-code"/>
Client IP *	<input type="text" value="10.0.8.231"/>
Port *	<input type="text" value="1080"/>
Video Profile *	<input type="text" value="hd360-1250kbs"/>
Audio Profile *	<input type="text" value="mp3-128kbs"/>
Thumbnail Timecode *	<input type="text" value="00:00:03:00"/>

 Enter the timecode to capture the frame for thumbnail.

- Client IP:** IP of the server where Net-X-Code is running.
- Port:** Port through which Ingest Manager communicates with Net-x-Code. Default port value is 1080.
- Video Profile:** The target profiles to which the video assets should be converted. (*this is same as the video guild or video settings in other transcoders*)
- Audio Profile:** The target profiles to which the audio assets should be converted. (*this is same as the audio guild or audio settings in other transcoders*)
- Thumbnail Timecode:** Time code from which the thumbnail should be extracted for video assets. This will be in format hh:mm:ss:ff.

5) Telestream Vantage Transcoder Type, define default parameters.

Transcode Server Name	<input type="text"/>								
Transcode Server IP / Host Name	<input type="text"/>								
Transcoder Type	<input type="text" value="Telestream Vantage"/>								
Webservice Uri	<input type="text" value="http://localhost/eMAMVantageService/"/>								
Default Parameters									
Workflow ID	<input type="text" value="31aeda96-8374-4291-b304-b463338da9a2"/>								
Define Variables									
Show System Variables									
<table border="1"> <thead> <tr> <th>Variable Name</th> <th>Type</th> <th>Value</th> <th>Control</th> </tr> </thead> <tbody> <tr> <td><input type="text"/></td> <td><input type="text" value="Int"/></td> <td><input type="text"/></td> <td><input type="text" value="Super Admin"/></td> </tr> </tbody> </table>	Variable Name	Type	Value	Control	<input type="text"/>	<input type="text" value="Int"/>	<input type="text"/>	<input type="text" value="Super Admin"/>	<input type="button" value="Define details"/>
Variable Name	Type	Value	Control						
<input type="text"/>	<input type="text" value="Int"/>	<input type="text"/>	<input type="text" value="Super Admin"/>						
<input type="button" value="SAVE"/> <input type="button" value="CANCEL"/>									

- Workflow ID**- ID of the Vantage workflow to be used by Delivery Service.
- Define Variables:** User can add custom variables in the workflow and add them using  icon.

- ✓ System: System variables are reserved for eMAM services. User can't add or edit those variables.
 - ✓ User: Variables created and controlled by user
- c. Click on **Show System Variables** will display below:

Variable Name	Type	Value	Control
ProxyPath	String	--System--	System ?
eMAMUUID	String	--System--	System ?
FileType	String	--System--	System ?
TemporaryFolder	String	--System--	System ?
FileName	String	--System--	System ?
LocationType	String	--System--	System ?
ddd	Int	2	User

Option to hide or show system variables

List of defined system variables

- d. **Variable Name**-Name of the Vantage Variable used in the workflow
- e. **Type**- Int, string etc.
- f. **Value** -Value for the variable
- g. **Control**-It can be one of the following:
- ✓ Super Admin- Only Super admin can modify the values of these variables. They won't be available for editing in Delivery Widget.
 - ✓ Unit Admin- Super Admin or Unit Admin can modify these variables. They will be available in Delivery widget for editing only if the logged in user is a Unit Admin
 - ✓ Unit User- Super admin/unit admin/ unit user can modify these variables. They will be available for editing in Delivery widget.

6) **Harmonic WFS Transcoder Type**, Define Default Parameters

Transcoder Server Name

Transcoder Server IP / Host Name

Transcoder Type: Harmonic WFS

Web Service URL: http://localhost:8731/Rhozet.JobManager.J

Workflow ID

Video Preset: <Module_0 ModuleGUID="{DF227069-5140-4127-BB25-BF31D1E732AA}" PresetGUID="{72AEDBAA-78F7-4506-8B59-62C5FC941330}"><ModuleData CML_P_BaseFileName="%s_IM30" CML_P_Path="D:\eMAM\Rhozet\emam_assets">

Audio Preset: <Module_0 ModuleGUID="{AA679FC9-17FF-438F-A715-F9E0451FC3B8}" PresetGUID="{DF2CEB08-14B3-429F-A71C-6BA2EFA7299B}"><ModuleData CML_P_BaseFileName="%s_MP3" CML_P_Path="C:\Users\Administrator.ETLSV">

Thumbnail Preset: <Module_1 ModuleGUID="{AF35B846-7896-4879-98D6-5AEF8598B30D}" PresetGUID="{AF35B846-7896-4879-98D6-5AEF8598B30D}"><ModuleData CML_P_BaseFileName="%s_tn" CML_P_Path="C:\Users\Administrator\Docum">

Closed Caption: <Module_2 ModuleGUID="{EAA268CD-42F1-4B49-B7A9-6081F8341B48}" PresetGUID="{EAA268CD-42F1-4B49-B7A9-6081F8341B48}"><ModuleData CML_P_BaseFileName="%s_CC" CML_P_Path="C:\Users\Administrator.ETLSV">

Option to select Preset file

Define the details

SAVE CANCEL

7) For ATEME Titan , Define Default Parameters

Transcode Profile Name *	<input type="text"/>
Transcode Server IP / Host Name *	<input type="text"/>
Transcode Server *	EIT-MVPA-DT-043
Transcoder Type *	Ateme-Titan File
API Endpoint *	http://127.0.0.1/restapi
Authorization Token	<input type="text"/>
Job Preset *	<pre><job version='3.9.5.0'> <time>2020-09-17 21:22:35</time> <name>source_file.ext</name> <src>eMAM TITAN File Job 1.0</src> <priority>normal</priority></pre>
Image Proxy Settings	Max Width <input type="text" value="640"/> Max Height <input type="text" value="360"/> <input type="checkbox"/> Enable Auto Orientation

ATEME Titan file transcoder type

- API Endpoint:** Provide the Titan File REST API Endpoint configured by ATEME.
- Authorization Token:** Provide the Token for REST API that can be obtained from the Titan File GUI.
- Job Preset:** Enter the job preset obtained from Titan File Job Composer. You can also select and upload the preset in XML file format and preview the contents here.

Job Preset *	<pre><job version='3.9.5.0'> <time>2020-09-17 21:22:35</time> <name>source_file.ext</name> <src>eMAM TITAN File Job 1.0</src> <priority>normal</priority></pre>
--------------	---

 : Click on this icon to add preset files from your machine.

 : Click on this icon to preview the preset file.

8) For Capella Cambria FTC , define the default parameters

Transcoder Type *	Capella Cambria FTC
API Endpoint	http://localhost:8649/CambriaFC/v1
Video Preset	<pre><JobDescr Description='FTC UI (Preset: Preset-20220303-082903) ' JobTag='' NumberOfRetries='2' Priority='5' ProcessArchitecture='x64'</pre>
Audio Preset	<pre><JobDescr Description='FTC UI (Preset: Preset-20220303-082903) ' JobTag='' NumberOfRetries='2' Priority='5' ProcessArchitecture='x64'</pre>
Thumbnail Preset	<pre><JobDescr Description='FTC UI (Preset: Preset-20220303-082903) ' JobTag='' NumberOfRetries='2' Priority='5' ProcessArchitecture='x64'</pre>

- a. **API Endpoint:** Provide the Capella API Endpoint
- b. **Video preset:** Enter the job preset obtained from Capella
- c. **Audio preset:** Enter the job preset obtained from Capella
- d. **Thumbnail preset:** Enter the job preset obtained from Capella

6.2 Manage Delivery Profiles

To create a new delivery profile, the Super Administrator can choose the profile name, set preset IDs for audios and videos, select delivery type as *Duplicate* or *Transcode* delivery, Delivery location type as *Network*, *FTP* or *SAN* or *S3*, specify destination file name.

Profile Name	Video Preset	Audio Preset	EDIT	DELETE
Send to Playout	Duplicate	Duplicate		
Duplicate Profile [Individual XML]	Duplicate	Duplicate		
Duplicate Profile [Individual TEXT]	Duplicate	Duplicate		
Duplicate Profile [GROUP JSON]	Duplicate	Duplicate		
Duplicate Profile [GROUP XML]	Duplicate	Duplicate		
Duplicate Profile [GROUP TEXT]	Duplicate	Duplicate		
Duplicate Profile [GROUP NOTIFY]	Duplicate	Duplicate		
Subclip Delivery With XML				

Delivery Profile | Users

Profile Name:

eMAM Delivery Server:

Delivery Type:

Include Asset Include File Attachments Include EDL Include eMAM Metadata XML Include Sidecar File

Destination File Name:

Delivery Location Type:

Network UNC path:

Rename duplicate filename(s) in the destination

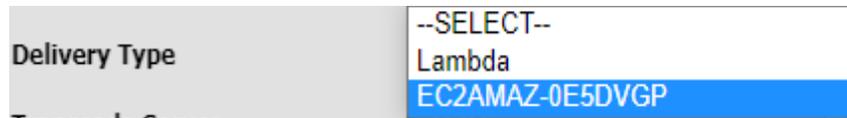
Keep source folder structure at destination

Enable Notification

Manage Delivery Profile screen

1) Delivery Profile Tab: Under Delivery tab, enter following details:

- a. **Profile Name** – Name of the delivery profile to identify
- b. **eMAM Delivery Server**- Choose *Lambda* or *the server* which will process the jobs that are queued with that delivery profile.



Elemental MediaConvert uses Lambda as transcoder:

- **Access Key:** Enter Access Key from AWS account.
- **Secret Key:** Enter Secret Key from AWS account.
- **SQS URL:** Enter SQS (Simple Queue Service) URL.

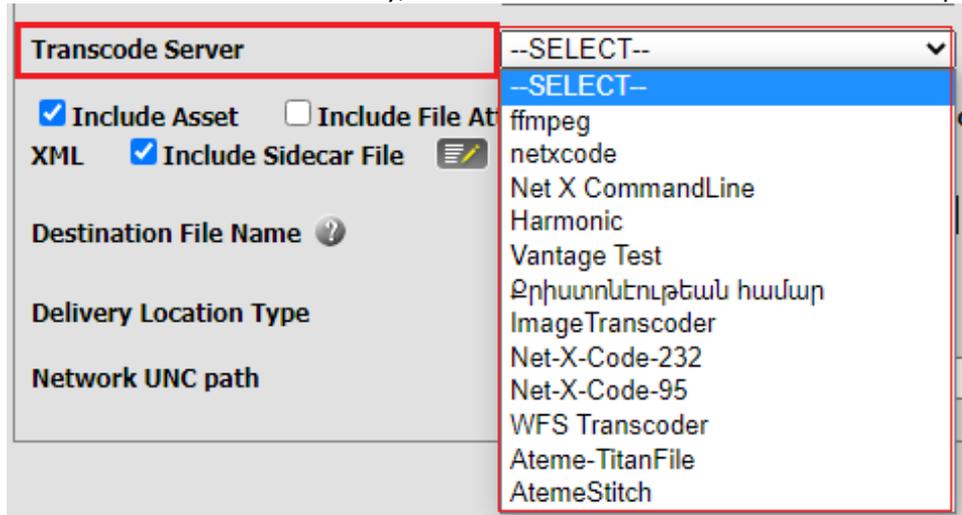
c. **Delivery Type-** Select Delivery Type (*Duplicate Delivery and Transcode Delivery*)

- **Transcode delivery:** Using transcoding delivery can convert the asset to any supporting format and deliver it. Select *Transcode Delivery* as **Delivery type** and select the **Transcode Server** *FFMPEG/Elemental Media Convert/Local AME/ATEME Titan File*).

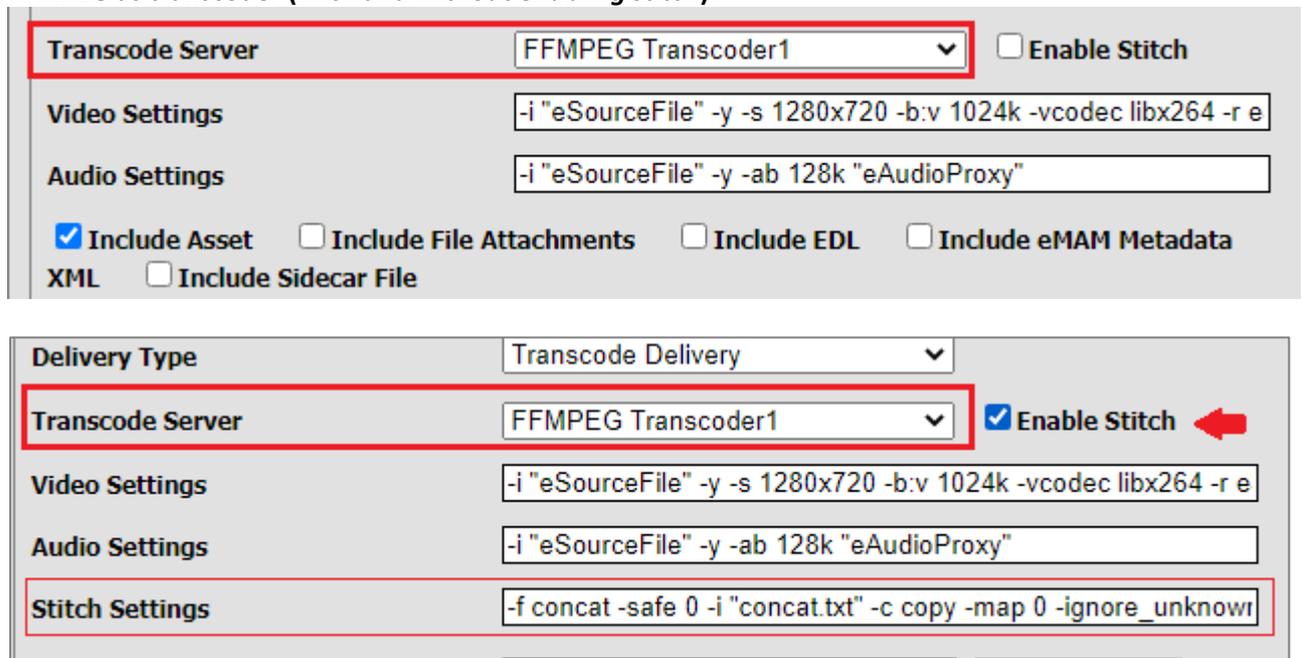
- **Duplicate Delivery:** Will deliver the asset without transcoding. (*Parameters explained below*)

Screen for Duplicate Delivery as Delivery type

- d. **Transcode server:** For transcode delivery, choose from the list of transcode servers displayed:

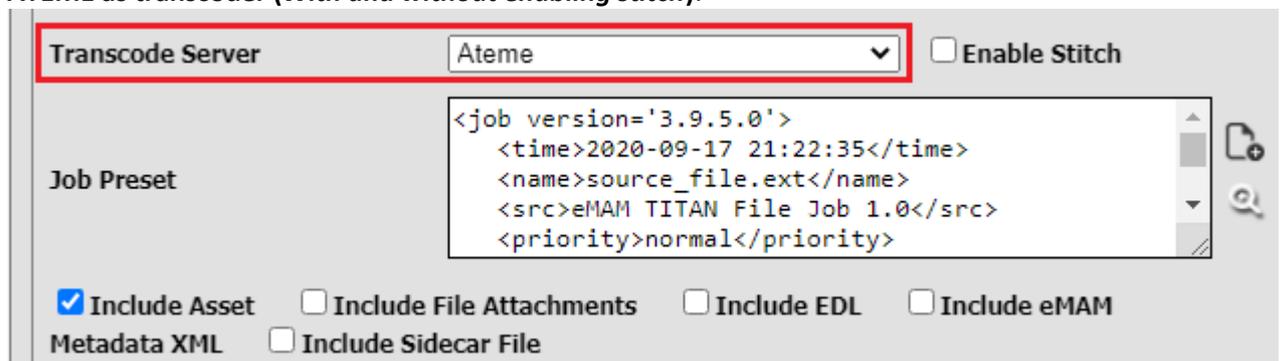


- **FFMPEG as transcoder (With and without enabling stitch):**



Screen for Transcode Delivery as Delivery type with FFMPEG as the transcoder

- **ATEME as transcoder (With and without enabling stitch):**



Screen for Transcode Delivery as Delivery type with ATEME Titan file as the transcoder

Note: If you select FFMPEG & ATEME as your Transcode delivery transcoder, an additional checkbox appears to *Enable Stitch*.

- ✓ **Enable Stitch:** Enable to output a single stitched file as delivery output file. If this check box is unchecked the delivered files will be transcoded individually without stitching.
- ✓ **Job Preset:** Enter the job preset obtained from Titan File Job Composer. You can also select and upload the preset in XML file format and preview the contents here. The job preset configured as part of the Manage Transcode Servers section of the Delivery Configuration (2.a.vii) will be overridden by this preset.
- ✓ **Stitch Settings:** Enter the presets from the FFMPEG.
-f concat -safe 0 -i "concat.txt" -c copy -map 0 -ignore_unknown "eSequenceFile"

- **Net X Code as transcoder:**

- **Harmonic as transcoder**

- **Vantage as transcoder:**

- **Capella as transcoder**

Transcode Server	Capella
Video Preset :	<pre><JobDescr Description="FTC UI (Preset: Preset-20220303-082903)" JobTag="" NumberOfRetries="2" Priority="5" ProcessArchitecture="x64" Submitter="Cambria"><Job</pre>
Audio Preset :	<pre><JobDescr Description="FTC UI (Preset: Preset-20220303-082903)" JobTag="" NumberOfRetries="2" Priority="5" ProcessArchitecture="x64" Submitter="Cambria"><Job</pre>

- e. **Include Asset** (Check box): Enabled by default to include the assets.
- f. **Include File Attachments** (Check box): Enable to include file attachments for delivery.
- g. **Include EDL** (Check box): Enable to include the EDL (Edit decision List)
- h. **Include eMAM Metadata XML** (Check box): Enable to include the eMAM Metadata XML
- i. **Include Sidecar file** (Check box) Option to include sidecar file with the metadata contents. eMAM Delivery Service can create a **Custom Sidecar File** from the basic file properties (*title, author, Description, File name extension, Asset ID UUID, Original virtual path, Original cloud virtual path, current original virtual path, Proxy virtual path, Proxy cloud virtual path, current proxy virtual path, Delivered Filename*) and custom metadata that are added as variables in the file definition.

Include Sidecar File 

Click on edit icon will display below window an icon to **Define Sidecar file contents**:

Define Sidecar Content ✕

SIDECAR FILE DETAILS Individual sidecar files for assets in queue Consolidated sidecar file for assets in queue Deliver sidecar to a different location

Variables **File Type** **File Location**

File Name **Repeater Tag**

File Content Enter sidecar file content in the specified format here. Inserted variables will be replaced with the actual values in the side car file output. Any valid XML data node that comes within the tag 'emam-content-repeater' will be considered as a single element node to be repeated while output generation and variables get replaced based on the repeater type specified as attribute of the element, such as (asset | version | attachment | clip). Note that the tag 'emam-content-repeater' along with its attributes will not be present in the final xml output side-car file. A sample XML format which generates standard clips data is as below..

```
<?xml version="1.0"?>
<root>
  <asset name="%e_FILE_filename%">
    <clips>
      <emam-content-repeater type="Clip">
        <clip name="%e_CLIP_STD_clipName%" in="%e_CLIP_STD_clipIn%" out="%e_CLIP_STD_clipOut%" />
      </emam-content-repeater>
    </clips>
  </asset>
</root>
```

You can define the contents of the Sidecar File by clicking on the  icon next to individual Delivery selection. A new window pops up to define the sidecar contents. Define sidecar file properties using various variables under *File properties* and *Custom metadata* and click then 'Save'.

- a. **Sidecar Level Details**: Specify sidecar details by choosing any of the below:

- **Individual sidecar files for assets in queue:** Individual sidecar files are created for delivery of each asset.

The screenshot shows the 'Define Sidecar Content' dialog box. Under 'SIDE CAR FILE DETAILS', the radio button for 'Individual sidecar files for assets in queue' is selected and highlighted with a red box. Other options include 'Consolidated sidecar file for assets in queue' and 'Deliver sidecar to a different location'. The 'Variables' dropdown is set to 'GUID', 'File Type' is 'XML', and 'Repeater Tag' is 'STD Clip'. A 'File Content' text area contains XML code for defining sidecar content.

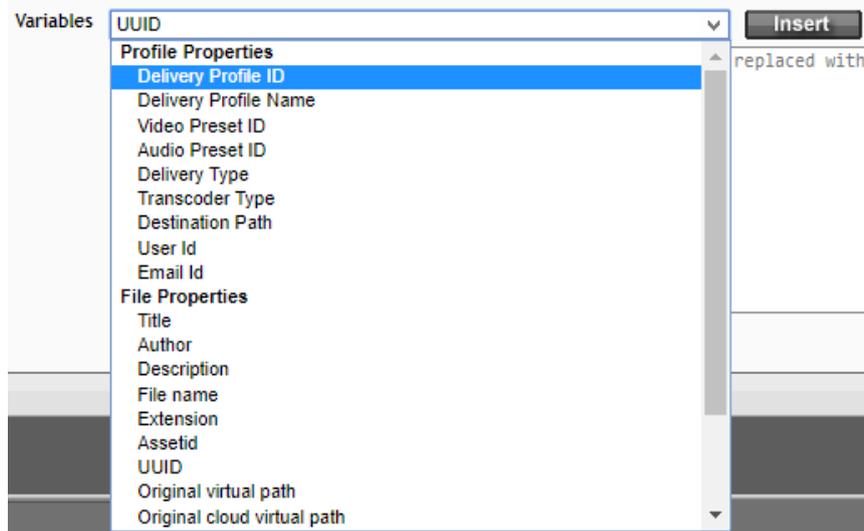
- **Consolidated sidecar file for assets in queue:** A single side car file is created for a group of assets delivered. Enter Asset level and Project level details.

The screenshot shows the 'Define Sidecar Content' dialog box. Under 'SIDE CAR FILE DETAILS', the radio button for 'Consolidated sidecar file for assets in queue' is selected and highlighted with a red box. Below this, there are sections for 'PROFILE LEVEL DETAILS' and 'ASSET LEVEL DETAILS', each with their own 'Variables' dropdown and 'Insert' buttons. The 'ASSET LEVEL DETAILS' section also includes a 'Root Element' dropdown.

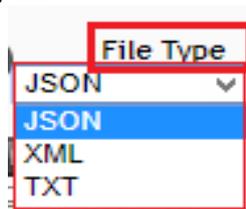
- **Deliver side car to different location:** Using this option, you have option to choose a different delivery location by entering local or network file path location.

The screenshot shows the 'Define Sidecar Content' dialog box. The radio button for 'Individual sidecar files for assets in queue' is selected. The checkbox 'Deliver sidecar to a different location' is checked and highlighted with a red box. The 'File Location' text field is also highlighted with a red box.

- b. **File Location**: Enter local or network file path location.
- c. **Variables**: Select from the list of variables in the dropdown – General variables, Profile properties, File Properties, Clip variables (Standard Group & TX Group), Attachment variables, Custom Metadata, Marker variables, Embedded metadata, duration and size variables and click on *Insert* button. Selected variables get added to the *File Content* box.

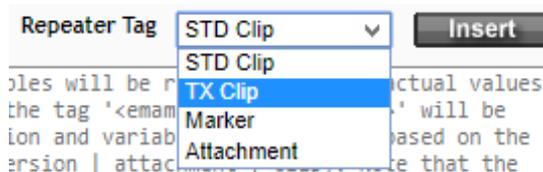


- d. **File Name**: Enter a file name without extension. You can also use different variables.
- e. **File Type**: Select file type as JSON/XML/TXT



- f. **Repeaters** (Only for XML file type): For XML file type delivery, below repeaters can be selected:
- Subclips (Standard clip & TX clip)
 - Markers
 - Attachment

Click on *Insert* to display in *File Content* box. "Repeater" tag can be used for BFX delivery. Contents can be generated by replacing the variables, as many times as the number of clips/markers/attachments.



- g. **File Content**: Enter the sidecar file contents here. Inserted variables will be replaced with the actual values in the side car file output. Any valid XML data node that comes within the tag '`<emam-content-repeater>`' will be considered as a single element node to be repeated while output generation and variables get replaced based on the repeater tag specified as attribute of the element such as `asset/version/attachment/clip`.

Note: *The tag `<emam-content-repeater>` along with its attributes will not be present in the final out XML sidecar file.*

Click on **Save** button to save the settings.

- j. **Destination File Name:** Choose a variable from the drop-down list and click on **Insert** button to set it as the delivery destination file name. Multiple variables can also be selected. Applicable only if **Include asset** checkbox is enabled.

- k. **Delivery Location Type:** Select the delivery output location type.
- l. **Network UNC Path/SAN/FTP/S3:** Enter the delivery output location.

- ✓ **Network**, specify:

- Network UNC Path

- ✓ **SAN**, specify:

- SAN Storage Location

- ✓ **FTP**, specify:

- Host Name
- UserName
- Password
- Port

- ✓ **S3**, specify:

- Service URL
- Access Key
- Secret Key
- Click **Connect**.
- Bucket name

- m. **Rename duplicate filename(s) in the destination-** (checkbox) If enabled, duplicate files will be renamed at the destination.
- n. **Keep source folder at destination-** (checkbox)- Check this option to deliver the assets so that the source folder hierarchy is maintained. This will help deliver entire folder, along with its assets and sub folders to any destination.
- o. **Enable notification:** (Check box) Check it to enable notifications as part of delivery. Click on  icon to define delivery notification variables.

- ✓ Select Notification type (Email, REST, URI) and fill in all the details. Refer Workflow section: **Notify**.

Click on Save to **Save** the changes and **Cancel** to cancel the changes.

Note: A notifications on deliver success or failure is automatically sent to users who initiate the delivery job.

2) Users Tab

Users tab displays the list of all eMAM users. Select the users with whom you would like to associate with the new delivery profile created, by checking the checkboxes and click **Save**. Use **Select All** option to select all users at one click.

Duplicate Delivery profiles: If you wish to duplicate any delivery profiles, you need not fill in all the parameters again.

MANAGE DELIVERY PROFILES

ID	Profile Name	Transcode	Protocol	Network Path	Enabled	Actions
4	Vantage_Subclip	Transcode	Vantage	\\10.0.20.106\eMAMFolders\Unit_One\Delivery_Subclip_Vant...	<input type="checkbox"/>	<input type="checkbox"/>
5	Stitch_Deliver	Transcode	CommandLine	\\10.0.20.106\eMAMFolders\Unit_One\Delivery	<input type="checkbox"/>	<input type="checkbox"/>
7	XML Only	Duplicate	Network	\\10.0.20.106\eMAMFolders\Unit_One\Delivery_XML	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	Yes Tv - morpheus test	Duplicate	FTP		<input checked="" type="checkbox"/>	<input type="checkbox"/>
12	FTP_Delivery (10.0.20.95)	Duplicate	FTP		<input type="checkbox"/>	<input type="checkbox"/>
15	Delivery-audio-video-netx	Transcode	Network	\\10.0.20.106\eMAMFolders\Unit_One\Delivery-audio-video-...	<input type="checkbox"/>	<input type="checkbox"/>
17	Stitchdelivery_FTP	Transcode	CommandLine	FTP	<input type="checkbox"/>	<input type="checkbox"/>
19	Subclipdelivery_ystv(delete after test)	Tr			<input type="checkbox"/>	<input type="checkbox"/>
21	delivery_ffmpeg	Tr			<input type="checkbox"/>	<input type="checkbox"/>

SAVE DELIVERY PROFILE AS

Profile Name:

Delivery Profile | Users

Profile Name:

eMAM Delivery Server:

Delivery Type:

Include Asset Include File Attachments Include EDL Include eMAM Metadata

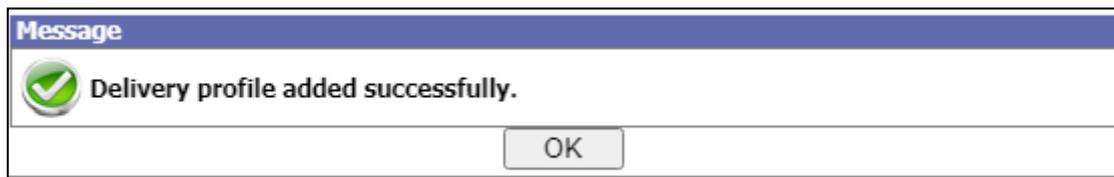
XML Include Sidecar File

Delivery Location Type:

Network UNC path:

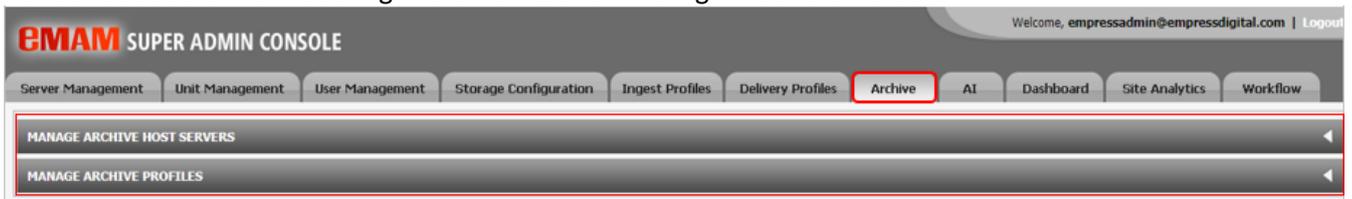
Enable Notification

- Just click on edit icon of the desired delivery profile.
- Click on *Save As* button.
- A pop up window opens up to enter the name of the new delivery profile.
- Enter a *Profile name* and click on *Submit* button.
- Below message appears.



7. Archive

eMAM Archive Manager will archive the assets to any tape, cloud, object or disk-based archive. This solution can also be used with technologies such as Xendata, Qstar, Crossroads StrongBox and 1 Beyond EZ Stor which show the entire LTO library as a large disk cache to eMAM. eMAM Archive Manager is seamlessly integrated with SGL Flashnet, ASG-Atempo and Archiware P5 Archive. eMAM Archive Manager is using S3 technology to integrate with Dell EMC ECS, Oracle Cloud, Google Cloud, Spectra Logic BlackPearl that shows the LTO library as an object storage. Integrated archive technologies are: 1Beyond EzStor, Amazon Glacier, Archiware P5, Atempo ADA, Backblaze B2, Cloudian, DellEMC ECS, Disk Archive ALTO, Ecodigital Diva Archive, HGST/Wester Digital, Hitachi, IBM Cloud Object Storage, Microsoft, NetAPP, Object Matrax, QStar Archive Manager, Quantum StorNext, SGL FlashNet, Spectra Logic libraries, n Tier Verde, and Black Pearl, Storage DNA, and XenData (SX5000 and others). It is used to set the archive configuration for each online high-resolution folder.



Main screen for Archive tab

7.1 Manage Archive Host Servers

HOST SERVER NAME	HOST SERVER IP	ARCHIVE TYPE	EDIT	DELETE
blackpearl	10.0.1.127	Spectra BlackPearl		

Host Server Name:

Host Server IP:

Archive Type:

Enable LTFS Archive:

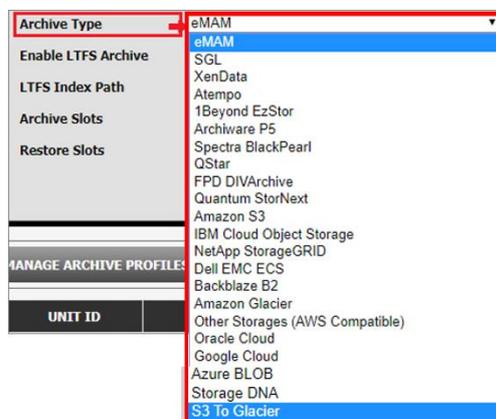
LTFS Index Path:

Archive Slots:

Restore Slots:

Screen with eMAM as Archive type

- i. **Host Server Name**- Custom name given by the user for an Archive host server.
- ii. **Host Server IP**- IP of the server in which the archive host application is running. There is no default IP.
- iii. **Archive type**- Select archive types from the dropdown list to archive the files to a local or network location. Parameters displayed below will differ based on the Archive type selected.



List of Archive Types available

1) If Archive Type is selected as **eMAM**, specify:

The screenshot shows a configuration form for the eMAM archive type. The 'Archive Type' dropdown is set to 'eMAM'. Below it, the 'Enable LTFS Archive' checkbox is checked. The 'LTFS Index Path', 'Archive Slots', and 'Restore Slots' fields are visible and contain the value '1'. The 'Host Server Name' and 'Host Server IP' fields are empty. 'SAVE' and 'CANCEL' buttons are at the bottom right.

- a. **Enable LTFS Archive-**
 - If false, eMAM disk archive will be configured. It can archive files to a local or network path.
 - If true, eMAM LTO Archive will be configured. It can archive files to a LTO tape mounted in a single LTFS drive. This is used only in the case of eMAM EZ package.
- b. **LTFS Index Path-** This field will be enabled only if Enable LTFS Archive flag is true. This is the path where LTFS index files are saved. This path should be configured in the LTFS Configuration application.
- c. **Archive Slots-** Number of archive jobs that can be submitted to the server simultaneously. These many threads will be initialized in eMAM Archive Manager for that host server.
- d. **Restore Slots** – Number of Restore jobs that can be submitted to the server simultaneously. These many threads will be initialized in eMAM Archive Manager for that host server.

2) If Archive type is selected as **SGL**, provide the details for:

The screenshot shows a configuration form for the SGL archive type. The 'Archive Type' dropdown is set to 'SGL'. Below it, the 'Archive Port' field is empty, and the 'Connect' button is visible. The 'Volume' dropdown is empty, and the 'Unable to connect to get Volume' checkbox is checked. The 'Prompt for values' and 'Verify Files Flag' checkboxes are unchecked. The 'API Version', 'Username', 'Archive Slots', and 'Restore Slots' fields are visible and contain the value '0'. The 'Host Server Name' and 'Host Server IP' fields are empty. 'SAVE' and 'CANCEL' buttons are at the bottom right.

- a. **Archive Port** - Port to communicate with SGL Flashnet. Click on Connect button.
- b. **Volume-** The set of tapes or disk to be used for the Archive operation
- c. **Unable to connect to get volume (checkbox)-** Enable when eMAM Super Admin Console fails to connect to SGL server to get the volume list.
- d. **Prompt for Values-** Optional flag.
- e. **Verify Files Flag-** Specifies if the Archive should perform a bitwise verification of the archived data with the original data. This process is performed after the Archive has finished writing.
- f. **API Version-** Identifies the version of the API which the calling application has been written to.
- g. **Username-** Name of the operator making the call if multiple users are communicating with the Archive
- h. **Archive Slots-** Number of archive jobs that can be submitted to the server simultaneously.
- i. **Restore Slots-** Number of Restore jobs that can be submitted to the server simultaneously.

3) If Archive type is selected as **XenData**, specify:

Host Server Name	Xendata XML Workflow
Host Server IP	10.0.20.80
Archive Type	XenData
Xendata Server Port	3466
Media Server ID	Server4
Xendata Sub Folder	Archive
Archive Slots	4
Restore Slots	4

Screen with XenData as archive type

- Xendata Server Port** is the Port used for TCP/IP communication with Xendata workflow server. The default port used by the Workflow server is 3466.
- Media Server ID** is the unique ID of the configured media server in the mediaservers.xml where the original media exists.
- Xendata Sub Folder** - Xendata Sub Folder is the name of the archive folder which is created inside the XenData cache drive and mapped to a file group in XenData Management console.
- Archive Slots**- Number of archive jobs that can be submitted to the server simultaneously.
- Restore Slots**- Number of Restore jobs that can be submitted to the server simultaneously

4) If Archive type is selected as **Atempo**, specify:

Host Server Name	
Host Server IP	
Archive Type	Atempo
Atempo Web service url	
Atempo Agent Host name	
Project Archive Name	
Port	
PARTIAL RESTORE CONFIGURATION	
Atempo Server Name	
UserName	
Password	
Project Archive Folder	
Archive Slots	0
Restore Slots	0

- Atempo Web Service URL**- Atempo Web service url is the url of the web service hosted on the Atempo Archive Server.
- Atempo Agent Host Name**- Atempo Agent Host Name is the name of the machine where Atempo Digital Archive Agent is installed.
- Project Archive Name**- Project Archive Name is the name of the Project Archive created in the Atempo Administration console.
- Port**- Default port for Atempo API communication. Default Port is 8081.

For **Partial Restore Configuration**, provide the following details:

- Atempo Server Name** – Name of the Atempo Archive server.
- UserName** – Username used to log in to the Atempo Digital Archive console.
- Password** – Password used to log in to the Atempo Digital Archive console.
- Project Archive Folder** - Project Archive Folder is optional. There is an option to create a folder under a Project Archive in Atempo Administration console.
- Archive Slots**- Number of archive jobs that can be submitted to the server simultaneously.
- Restore Slots**- Number of Restore jobs that can be submitted to the server simultaneously

5) If Archive type is selected as **1Beyond EzStor**, specify:

Host Server Name	<input type="text"/>
Host Server IP	<input type="text"/>
Archive Type	1Beyond EzStor
EzStor Username	<input type="text"/>
EzStor Password	<input type="text"/>
EzStor Endpoint Address	<input type="text"/>
EzStor Endpoint Port	<input type="text"/>
Archive Slots	<input type="text" value="0"/>
Restore Slots	<input type="text" value="0"/>

SAVE CANCEL

- a. **EzStor Username**
- b. **EzStor Password**
- c. **EzStor Endpoint Address**- Endpoint address of the EzStor API webservice.
- d. **EzStor Endpoint Port**- Endpoint port of the EzStor API webservice.
- e. **Archive Slots**- Number of archive jobs that can be submitted to the server simultaneously.
- f. **Restore Slots**- Number of Restore jobs that can be submitted to the server simultaneously

6) For **Archiware P5** Archive type, specify:

Host Server Name	<input type="text"/>
Host Server IP	<input type="text"/>
Archive Type	Archiware P5
Username	<input type="text"/>
Password	<input type="text"/>
Port Number	<input type="text"/>
Client Name	<input type="text"/>
Archive Plan	<input type="text"/>
Network Drive	<input type="text"/>
Archive Slots	<input type="text" value="0"/>
Restore Slots	<input type="text" value="0"/>

SAVE CANCEL

- a. **Username**
- b. **Password**
- c. **Port number**- Default port for Archiware P5 API communication. Default Port is 9001.
- d. **Client Name**- Client Name is the name of the Client created in the P5 interface. Client should be installed in the machine where eMAM Archive Manager is installed.
- e. **Archive Plan**- Archive Plan is the ID of the Archive Plan created in the P5 interface.
- f. **Network Drive**- If the Highres folder is a local folder then Network drive should be the local highres path. Else, Network drive is the drive letter of the disconnected network drive which is mounted on the machine where eMAM Archive Manager is installed.
- g. **Archive Slots**- Number of archive jobs that can be submitted to the server simultaneously.
- h. **Restore Slots**- Number of Restore jobs that can be submitted to the server simultaneously.

7) For **DAC ALTO Connect** Archive type, specify:

Host Server Name	Disk Archive
Host Server IP	10.0.20.106
Archive Type	DAC ALTO Connect
Archive Slots	2
Restore Slots	2

Screen with Disk ALTO Connect as Archive type

- Archive Slots**- Enter the no. of archive jobs that can be submitted to the server simultaneously.
- Restore Slots**- Enter the no. of restore jobs that can be submitted to the server simultaneously.

8) For **Spectra BlackPearl**, specify:

Host Server Name	Blackpearl host
Host Server IP	10.0.8.235
Archive Type	Spectra BlackPearl
Endpoint Address	http://10.0.8.14:8080
Access Key	
Secret Key	
Bucket Name	emam
	<input checked="" type="checkbox"/> Enable partial file restore
PARTIAL FILE RESTORE CONFIGURATION	
Marquis Server	10.0.8.93
Marquis Server Port	60792
Temporary Folder Path	
Results Folder Path	
Archive Slots	5
Restore Slots	5

Screen with Spectra Blackpearl as Archive type

- Endpoint Address**: URL of the black pearl gateway. The end point address should be configured as “**Error! Hyperlink reference not valid.**”. Replace the IP of the BlackPearl server.
- Access Key**: Encrypted access key for the user who is making the request. This access key to be used for API communication.
- Secret Key**: Encrypted Secret key for the user authentication. This secret key to be used for the API communication.
- Bucket Name**: Name of bucket storage where you want to archive the files.
- Enable partial file restore** (checkbox): eMAM is now integrated with latest BlackPearl Ds3 SDK version 4.0 and Marquis PFR API 6.25 and you can enable **partial restore** and fill in below options:
- Marquis Server**: Name / IP of the Server where the Marquis PFR API is installed and set up.
- Marquis Server Port**: The port to be opened for TCP/IP communication to the API. Default is 60792.
- Temporary Folder Path**: The path where the temporary partial media will be restored in between the process.
- Results Folder Path**: The path where the final output media will be rewrapped out of the temporary file.
- Archive Slots**- Number of archive jobs that can be submitted to the server simultaneously.
- Restore Slots**- Number of Restore jobs that can be submitted to the server simultaneously.

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9) For **QStar**, specify:

Host Server Name	<input type="text"/>
Host Server IP	<input type="text"/>
Archive Type	QStar
Integral Volume Name	<input type="text"/>
Archive Slots	<input type="text" value="0"/>
Restore Slots	<input type="text" value="0"/>

SAVE CANCEL

- Integral Volume Name**- Name of the Integral Volume created in the QStar Administration interface.
- Archive Slots**- Number of archive jobs that can be submitted to the server simultaneously.
- Restore Slots**- Number of Restore jobs that can be submitted to the server simultaneously.

10) For **FPD DIVArchive**, specify:

Host Server Name	<input type="text"/>
Host Server IP	<input type="text"/>
Archive Type	FPD DIVArchive
WebService URL	<input type="text"/>
Media Group Name	<input type="text"/>
Source Name	<input type="text"/>
Archive Slots	<input type="text" value="0"/>
Restore Slots	<input type="text" value="0"/>

SAVE CANCEL

Screen with FPD DIVArchive as Archive type

- WebService URL**- Web service url is the url of the web service hosted on the FPD DIVArchive Server.
- Media Group Name**- ID of the Media Group created in the FPD DIVArchive interface.
- Source Name**- Name of the Source Server created in the FPD DIVArchive interface.
- Archive Slots**- Number of archive jobs that can be submitted to the server simultaneously.
- Restore Slots**- Number of Restore jobs that can be submitted to the server simultaneously.

11) For **Quantum StorNext**, specify:

Host Server Name	<input type="text"/>
Host Server IP	<input type="text"/>
Archive Type	Quantum StorNext
WebService URL	<input type="text"/>
API Password	<input type="text"/>
StorNext Highres Path	<input type="text"/>
Archive Slots	<input type="text" value="0"/>
Restore Slots	<input type="text" value="0"/>

SAVE CANCEL

- WebService URL**- The url of the StorNext webservice.
- API Password**- The password stored in the /usr/adic/. snapipassword file on the StorNext server.
- StorNext Highres Path**- The path of the highres folder in the StorNext File system.
- Archive Slots**- Number of archive jobs that can be submitted to the server simultaneously.
- Restore Slots**- Number of Restore jobs that can be submitted to the server simultaneously.

Following actions will be supported by Quantum StorNext software:

- **Archive:** Archive assets from the eMAM Director interface to the secondary storage (LTO Tapes) managed by Quantum StorNext software.
- **Restore:** Restore the assets back from the secondary storage (LTO Tapes) managed by Quantum StorNext software to the eMAM system.
- **Purge:** Delete the archived assets from the secondary storage (LTO Tapes) managed by Quantum StorNext software.

12) For **Amazon S3, IBM Cloud Object Storage, NetApp Storage GRID, Dell EMC ECS and Other Storages (AWS Compatible)**, specify:

The screenshot shows the 'MANAGE ARCHIVE PROFILES' form. The 'Archive Type' dropdown menu is open, displaying a list of storage options. The 'Amazon S3' option is highlighted in blue. Other options include eMAM, SGL, XenData, Atempo, 1Beyond EzStor, Archiware P5, Spectra BlackPearl, QStar, FPD DIVArchive, Quantum StorNext, IBM Cloud Object Storage, NetApp StorageGRID, Dell EMC ECS, Backblaze B2, Amazon Glacier, and Other Storages (AWS Compatible). The 'Enable Path Style' checkbox is unchecked, and the 'Enable ACL' checkbox is checked. A 'CONNECT' button is visible on the right.

- a. **Service URL:** Enter service url.
- b. **Enable Path style:** Allows you to switch between the Virtual-style and Path-style Configuration of URL.
- c. **Enable ACL:** Check to enable ACL (Access Control List). *(By default, anyone who has OWNER permission or WRITER permission on a bucket can upload objects into that bucket. When you upload an object, you can either provide a predefined ACL or not specify an ACL at all. If you don't specify an ACL, Cloud Storage applies the bucket's default object ACL to the object).*
- d. **Access Key:** Encrypted access key for the user who is making the request. This access key to be used for API communication.
- e. **Secret Key:** Encrypted Secret key for the user authentication. This secret key to be used for the API communication. Click on **Connect** button should load the Buckets in Bucket Name drop down or Add new bucket.
- f. **Bucket Name:** Name of bucket storage where you want to archive the files or *Add new bucket*.
- g. **Archive Slots-** Number of archive jobs that can be submitted to the server simultaneously.
- h. **Restore Slots-** Number of Restore jobs that can be submitted to the server simultaneously.

13) For **BackBlaze B2**, specify:

- Account ID:** Enter Account id from your BackBlaze B2 Cloud Storage account.
- Application Key:** Enter Application Key from your BackBlaze B2 Cloud Storage account and click on **Connect** button.
- Bucket Name:** Select a Bucket from the list or create a new Bucket.
- Service Endpoint:** Enter endpoint address.
- Archive Slots-** Number of archive jobs that can be submitted to the server simultaneously.
- Restore Slots-** Number of Restore jobs that can be submitted to the server simultaneously.

14) For **Amazon Glacier**, specify:

- Region Name:** Select any region from the list of regions available:

Region Name	EU (Paris)
Account ID	--SELECT--
Access Key	US East (Ohio)
Secret Key	US East (N. Virginia)
Vault Name	US West (N. California)
Archive Slots	US West (Oregon)
Restore Slots	Asia Pacific (Tokyo)
	Asia Pacific (Seoul)
	Asia Pacific (Osaka-Local)
	Asia Pacific (Mumbai)
	Asia Pacific (Singapore)
	Asia Pacific (Sydney)
	Canada (Central)
	China (Beijing)
	China (Ningxia)
	EU (Frankfurt)
	EU (Ireland)
	EU (London)
	EU (Paris)
	AWS GovCloud (US)

- b. **Account ID:** leave it blank
- c. **Access Key:** Enter Access Key from AWS account.
- d. **Secret Key:** Enter Secret Key from AWS account and hit **Connect** button.
- e. **Vault Name:** Select vault from the already created vaults in the AWS account or create a new Vault. (Amazon Glacier uses "vaults" as containers to store archives. Vaults are collections of archives that you can use to organize data)
- f. **Archive Slots-** Number of archive jobs that can be submitted to the server simultaneously.
- g. **Restore Slots-** Number of Restore jobs that can be submitted to the server simultaneously.

15) For **Oracle Cloud**, specify:

Host Server Name	Oracle Cloud Storage	
Host Server IP	10.0.8.232	
Archive Type	Oracle Cloud	
Service URL	https://emamcloud.compat.objectstorage.us-ashbu	Enable Path Style <input checked="" type="checkbox"/>
Access Key	[REDACTED]	CONNECT
Secret Key	[REDACTED]	
Bucket Name	emamstage232	
Tenancy ID	oid1.tenancy.oc1. [REDACTED]	
Compartment ID	[REDACTED]	
User ID	[REDACTED]	
Finger Print	[REDACTED]	
Private Key File	Choose File No file chosen	
Private Key Password		
Archive Slots	2	
Restore Slots	2	

- a. **Service URL:** Enter service url.
- b. **Access Key:** Enter the encrypted access key for the user who is making the request.
- c. **Secret Key:** Enter the encrypted Secret key for the user authentication.
- d. **Bucket name:** Select a Bucket from the list or create a new Bucket.
- e. **Tenancy ID:** Enter Tenancy Id from the Oracle Console.
- f. **Compartment ID:** Enter Compartment Id from the Oracle Console.
- g. **User ID:** Enter User Id from the Oracle Console.
- h. **Fingerprint:** Enter Fingerprint details from the Oracle Console.
- i. **Private Key File:** Browse and choose the Private key file from your saved location
- j. **Private Key Password:** Enter Private Key Password.
- k. **Archive Slots-** Number of archive jobs that can be submitted to the server simultaneously.
- l. **Restore Slots-** Number of Restore jobs that can be submitted to the server simultaneously.

Oracle Cloud Console: <https://console.us-ashburn-1.oraclecloud.com/a/storage/objects>

16) For **Google Cloud**, specify:

Host Server Name	<input type="text" value="Google Cloud Storage"/>
Host Server IP	<input type="text" value="10.0.8.232"/>
Archive Type	<input type="text" value="Google Cloud"/>
Project ID	<input type="text" value="dev-office-216808"/>
Private Key File	<input type="button" value="Choose File"/> No file chosen
Bucket Name	<input type="text" value="emam-stage-232"/> <input type="button" value="CONNECT"/>
Archive Slots	<input type="text" value="2"/>
Restore Slots	<input type="text" value="2"/>

- Project ID:** Enter Project Id from GCP (Google Cloud Platform) console.
- Private Key File:** Browse and choose the Private key file from your saved location. (Go to the *Credentials sub section from the APIs & Services section in the left menu of GCP console. Create a service account key by clicking on create credentials link and save the newly created key in a format of JSON. Save the Private key to a safe location*).
- Bucket Name:** Select a Bucket from the list or create a new Bucket.
- Archive Slots-** Number of archive jobs that can be submitted to the server simultaneously.
- Restore Slots-** Number of Restore jobs that can be submitted to the server simultaneously.

Google Cloud Console: <https://console.cloud.google.com>

17) For **Azure BLOB**, specify:

Host Server Name	<input type="text" value="-"/>
Host Server IP	<input type="text" value="10.0.8.232"/>
Archive Type	<input type="text" value="Azure BLOB"/>
Access Key:	<input type="text"/>
Storage Account:	<input type="text"/>
Container:	<input type="text"/>
Cloud URL:	<input type="text"/>
Archive Slots	<input type="text" value="2"/>
Restore Slots	<input type="text" value="2"/>

- Access Key:** Enter Access Key
- Storage Account:** Enter storage account.
- Container:** Enter container details
- Cloud URL:** Enter the *https* address for the storage.
- Archive Slots-** Number of archive jobs that can be submitted to the server simultaneously.
- Restore Slots-** Number of Restore jobs that can be submitted to the server simultaneously.

18) For **Storage DNA**, specify:

Host Server Name	EMAM-SDNA-LAB
Host Server IP	192.168.5.113
Archive Type	Storage DNA
API Endpoint	http://192.168.5.187
Endpoint Port	5000
Authorisation Token	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2Vybm91dCI6ImVhbnQifQ.eyJ1c2Vybm91dCI6ImVhbnQifQ.eyJ1c2Vybm91dCI6ImVhbnQifQ.
SDNA Project Name	Emam-Archive
Volume Path	/Volumes/emam_folders/Original
Archive Slots	2
Restore Slots	2

- API Endpoints:** Storage DNA API Endpoint URL to which the communication can be established. E.g.: http://<IP or Hostname>
- Endpoint Port:** Storage DNA API Endpoint Port to which the communication is allowed. Default : 5000
- Authorization Port:** The authorization token is a simple JWT Token which just acts as an API key to grant access as a specific user within the system.
- SDNA Project Name:** Project Name added in the SDNA GUI which acts as a collection to which specific objects get archived.
- Volume Path:** The mounted Linux path from which the SDNA system expects the object to archive. Here, this path can point to the location of original path.
- Archive Slots-** Number of archive jobs that can be submitted to the server simultaneously.
- Restore Slots-** Number of Restore jobs that can be submitted to the server simultaneously.

19) For **S3 to Glacier**, specify:

Host Server Name	S3 To Glacier
Host Server IP	localhost
Archive Type	S3 To Glacier
Region Name	US East (N. Virginia)
Access Key	AKIAI44QH8D8DFK1H5G5
Secret Key	WJmTQZLz1c2V7Rj4kLmNpQrStUvWxYz1234567890
SQS URL	https://sqs.us-east-1.amazonaws.com/123456789012/queue-name

- **Region name:** Select any region from the list of regions available.
- **Access Key:** Enter Access Key from AWS account.
- **Secret Key:** Enter Secret Key from AWS account.
- **SQS URL:** Enter SQS (Simple Queue Service) URL.

Click **'Save'** to save the values entered and **'Cancel'** to discard changes made.

7.2 Manage Archive Profiles

Archive profile settings will change based on the selection of Archive host server drop down. The settings defined in the Archive Host server can be overridden in Archive Profile settings.

The screenshot displays the 'MANAGE ARCHIVE PROFILES' section of the eMAM Super Admin Console. It features a table with columns 'UNIT ID' and 'UNIT NAME'. Below the table is a form titled 'ONLINE HIGHRES FOLDER' with several input fields and checkboxes. A red box highlights the 'Archive Host Server' dropdown menu, which is currently set to 'eMAM Disk Archive'. Other fields include 'Profile Name', 'Archive Type' (set to 'eMAM'), 'Online Folder' (set to '--SELECT--'), 'Server' (set to '--SELECT--'), and 'Archive Folder'. Checkboxes at the bottom include 'Delete Files From Storage', 'Delete Files From Source', 'Full Restore', 'Is Default', and 'Enable Notifications'. 'SAVE' and 'CANCEL' buttons are located at the bottom right of the form.

Manage Archive Profiles screen

- i. **Profile Name**- Custom name given to a profile
- ii. **Archive Host Server**- Select one of the host servers:
- iii. **Archive Type**- This field is disabled in Archive Profile settings.
- iv. **Online Folder**- Select the original folder for which the archive profile is being created.
- v. **Server**- Select the eMAM server which will process the archive request.

1) For eMAM Archive, specify:

This close-up view of the form shows the 'Archive Host Server' dropdown menu selected with 'eMAM Disk Archive'. The 'Archive Type' is set to 'eMAM', and the 'Online Folder' and 'Server' are both set to '--SELECT--'. The 'Archive Folder' field is empty. The checkboxes at the bottom are: 'Delete Files From Storage', 'Delete Files From Source', 'Full Restore', 'Is Default', and 'Enable Notifications'.

- ✓ **Archive Folder**- Path to the local or Network Archive folder.

2) For **BlackPearl**, specify:

Archive Host Server: Blackpearl Server

Archive Type: Spectra BlackPearl

Online Folder: --SELECT--

Server: --SELECT--

Priority: 1

Bucket Name: testing_bucket

Delete Files From Storage Delete Files From Source Full Restore Is Default

- ✓ **Bucket name** (Blackpearl server/Wasabi/Google Cloud/DELL EMC ECS)- Name of the S3 bucket created in the cloud interface where you want to archive the files.

3) For **Archware P5**, specify:

Profile Name:

Archive Host Server: Archware P5 Archive

Archive Type: Archware P5

Online Folder: --SELECT--

Server: --SELECT--

Priority: 1

Archive Plan: 10001

Network Drive: y

Delete Files From Storage Delete Files From Source Full Restore Is Default

- ✓ **Archive Plan** (Archware P5 Archive)- The ID of the Archive Plan created in the Archware P5 interface.
- ✓ **Network Drive** (Archware P5 Archive)- The Drive letter of the high-res folder(network) which needs to be mounted (using PsTools) on the machine where eMAM Archive Manager is installed. If high-res folder is a local folder, then Network drive should be the local high-res path.

4) For **Xendata**, specify:

Profile Name	<input type="text"/>
Archive Host Server	Xendata XML Workflow
Archive Type	XenData
Online Folder	eMAMFolders
Server	Staging38
Media Server ID	Server4
Xendata Sub Folder	Archive
<input type="checkbox"/> Delete Files From Storage <input type="checkbox"/> Delete Files From Source <input type="checkbox"/> Full Restore <input type="checkbox"/> Is Default	

- ✓ **XenData Sub Folder** (Xendata Server)- The name of the archive folder which is created inside the XenData cache drive and mapped to a file group in XenData Management console.
- ✓ **Media Server ID** (Xendata Server)- is the unique ID of the configured media server in the mediaservers.xml where the original media exists.

5) For **ATEMPO**, specify:

Profile Name	<input type="text"/>
Archive Host Server	Atempo Server
Archive Type	Atempo
Online Folder	--SELECT--
Server	--SELECT--
Priority	1
Project Archive Name	eMAM Project Archive
Project Archive Folder	AtempoTest
<input type="checkbox"/> Delete Files From Storage <input type="checkbox"/> Delete Files From Source <input type="checkbox"/> Full Restore <input type="checkbox"/> Is Default	

- ✓ **Project Archive Name** (Atempo Server)- The name of the Project Archive created in the Atempo interface.
- ✓ **Project Archive Folder** (Atempo Server)- Optional folder which can be created inside the Project Archive.

6) For **1Beyond EzStor**, specify:

Profile Name	<input type="text"/>
Archive Host Server	1Beyond EzStor Server ▼
Archive Type	1Beyond EzStor ▼
Online Folder	--SELECT-- ▼
Server	--SELECT-- ▼
Archive Folder	<input type="text"/>
Priority	1 ▼
<input type="checkbox"/> Delete Files From Storage <input type="checkbox"/> Delete Files From Source <input type="checkbox"/> Full Restore <input type="checkbox"/> Is Default	

7) For **Qstar**, specify:

Profile Name	<input type="text"/>
Archive Host Server	Qstar Server ▼
Archive Type	QStar ▼
Online Folder	--SELECT-- ▼
Server	--SELECT-- ▼
Archive Folder	<input type="text"/>
Priority	1 ▼
<input type="checkbox"/> Delete Files From Storage <input type="checkbox"/> Delete Files From Source <input type="checkbox"/> Full Restore <input type="checkbox"/> Is Default	
Integral Volume Name	eMAM_Test

- ✓ **Integral Volume name** (Qstar server)- The name of the Integral Volume Set created in the QStar interface.

8) For **DIVArchive**, specify:

Profile Name	<input type="text"/>
Archive Host Server	DIV Archive ▼
Archive Type	FPD DIVArchive ▼
Online Folder	--SELECT-- ▼
Server	--SELECT-- ▼
Priority	1 ▼
Media Group Name	default
Source Name	TestingServer
<input type="checkbox"/> Delete Files From Storage <input type="checkbox"/> Delete Files From Source <input type="checkbox"/> Full Restore <input type="checkbox"/> Is Default	

9) For **FlashNet**, specify:

Profile Name	<input type="text"/>
Archive Host Server	FlashNet Server
Archive Type	SGL
Online Folder	--SELECT--
Server	--SELECT--
Priority	1
Archive Server IP	10.0.20.151
Archive Port	8199
Volume	FolderBased_DSK
<input type="checkbox"/> Unable to connect to get Volume <input type="checkbox"/> Prompt for values <input type="checkbox"/> Verify Files Flag <input type="checkbox"/> Delete Files From Storage <input type="checkbox"/> Delete Files From Source <input type="checkbox"/> Full Restore <input type="checkbox"/> Is Default	

- ✓ **Archive Server IP** (Flashnet and SGL Server)- The IP address of the machine where SGL FlashNet software is installed.
- ✓ **Archive Port** (Flashnet and SGL Server)- The port number used for API communication.
- ✓ **Volume** (FlashNet and SGL Server)- The name of the Flashnet Volume group.
- ✓ **Unable to connect to get Volume** (Flashnet and SGL Server)- Checkbox
- ✓ **Prompt for values** (Flashnet and SGL Server)- Checkbox

10) For **Quantum**, specify:

Profile Name	Bibins Quantum Archive
Archive Host Server	Quantum
Archive Type	Quantum StorNext
Online Folder	Bibins Folder
Server	ACME17
<input type="checkbox"/> Delete Files From Storage <input type="checkbox"/> Delete Files From Source <input type="checkbox"/> Full Restore <input type="checkbox"/> Is Default	
StorNext Highres Path	<input type="text"/>
Number Of Copies	2

11) For **SGL Flashnet Archive**, specify:

Profile Name

Archive Host Server SGL Flashnet Archive ▼

Archive Type SGL ▼

Online Folder --SELECT-- ▼

Server --SELECT-- ▼

Priority 1 ▼

Archive Server IP 10.0.20.106

Archive Port 8199

Volume FolderBased_DSK ▼ Unable to connect to get Volume

Prompt for values

Delete Files From Storage Delete Files From Source Full Restore Is Default

- ✓ **Archive Server IP** (Flashnet and SGL Server)- The IP address of the machine where SGL FlashNet software is installed.
- ✓ **Archive Port** (Flashnet and SGL Server)- The port number used for API communication.
- ✓ **Volume** (FlashNet and SGL Server)- The name of the Flashnet Volume group.
- ✓ **Unable to connect to get Volume** (Flashnet and SGL Server)- Checkbox
- ✓ **Prompt for values** (Flashnet and SGL Server)- Checkbox

12) For **DELL EMC Archive & NetApp**, specify:

Profile Name

Archive Host Server DELL-EMC ECS Archive ▼

Archive Type Other Storages (AWS Compatible) ▼

Online Folder --SELECT-- ▼

Server --SELECT-- ▼

Delete Files From Storage Delete Files From Source Full Restore Is Default

Bucket Name emam-ecs-archive ▼

Sub Folder

Cloud URL

- ✓ **Bucket name** (Blackpearl server/Wasabi/Google Cloud/DELL EMC ECS)- Name of the S3 bucket created in the cloud interface where you want to archive the files.

13) For **Google Cloud**, specify:

Profile Name	<input type="text"/>
Archive Host Server	Google Cloud Storage ▼
Archive Type	Google Cloud ▼
Online Folder	--SELECT-- ▼
Server	--SELECT-- ▼
	<input type="checkbox"/> Delete Files From Storage <input type="checkbox"/> Delete Files From Source <input type="checkbox"/> Full Restore <input type="checkbox"/> Is Default
Bucket Name	emam-stage-232 ▼
Sub Folder	<input type="text"/>

CONNECT

- ✓ **Bucket name** (Blackpearl server/Wasabi/Google Cloud/DELL EMC ECS)- Name of the S3 bucket created in the cloud interface where you want to archive the files.

14) For **Amazon S3 to Glacier**, specify:

Profile Name	<input type="text"/>
Archive Host Server	S3 To Glacier ▼
Archive Type	S3 To Glacier ▼
Online Folder	S3 Cache ▼
Server	EC2AMAZ-0E5DVGP ▼
	<input type="checkbox"/> Delete Files From Storage <input type="checkbox"/> Delete Files From Source <input type="checkbox"/> Full Restore <input type="checkbox"/> Is Default
Delete Threshold	<input type="text" value="1"/>
Retrieval Type	<input checked="" type="radio"/> Expedited <input type="radio"/> Standard <input type="radio"/> Bulk
Storage Class	<input checked="" type="radio"/> Glacier <input type="radio"/> Deep_Archive

For S3 to Glacier, you have option to choose

- **Retrieval type** as Expedited/Standard/Bulk
 - **Storage class:** Glacier/Deep_Archive
- ✓ **Retrieval type (Amazon S3 to Glacier):**
 - **Expedited:** Expedited retrieval allows you to quickly access your data when you need to have almost immediate access to your information. This retrieval type can be used for archives up to 250MB. Expedited retrieval usually completes within 1 and 5 minutes.
 - **Standard:** Standard retrieval provides access to any of your archives within several hours. Standard retrieval usually takes between 3 and 5 hours to complete.
 - **Bulk:** Bulk retrievals are S3 Glacier's lowest-cost retrieval option, which you can use to retrieve large amounts, even petabytes, of data inexpensively in a day. Bulk retrievals typically complete within 5–12 hours.

✓ **Storage class (Amazon S3 to Glacier):**

- **Glacier:** S3 Glacier is a secure, durable, and low-cost storage class for data archiving. You can reliably store any amount of data at costs that are competitive with or cheaper than on-premises solutions.
- **Deep Archive:** S3 Glacier Deep Archive is Amazon S3's lowest-cost storage class and supports long-term retention and digital preservation for data that may be accessed once or twice in a year.

15) For **Amazon S3 to Glacier**, specify:

Profile Name	DNA Evolution Archive
Archive Host Server	EMAM-SDNA-LAB
Archive Type	Storage DNA
Online Folder	Original
Server	WIN-4QP558DC68T
	<input checked="" type="checkbox"/> Delete Files From Storage <input checked="" type="checkbox"/> Delete Files From Source <input type="checkbox"/> Full Restore <input type="checkbox"/> Is Default
SDNA Project Name	Emam-Archive
Volume Path	/Volumes/emam_folders/Original

Delete Files From Storage
 Delete Files From Source
 Full Restore
 Is Default
 Enable Notifications

- a. **Delete Files From Storage** – Checkbox: If enabled, files from the storage will be deleted upon archive
- b. **Delete Files From Source** (Check box): If enabled, file from the source will be deleted upon archive.
- c. **Full Restore** (Check box): If enabled, file can be fully restored.
- d. **Is Default** (Checkbox): Enable this checkbox if the profile is default archive profile for the original folder. There will be multiple archive profiles for the original folder. Default profile will be used to archive asset if there is no profile selection option like immediate archive.
- e. **Enable Notifications** (Checkbox): If enabled, a notification email will be sent to the email address entered in the text box.

Delete Files From Storage
 Delete Files From Source
 Full Restore
 Is Default
 Enable Notifications

Please enter the email ids here to receive notifications. Use semi colon as delimiter for seperating mutiple

Click **'Save'** to save and **'Cancel'** to discard the Archive settings.

8. AI (Artificial Intelligence)

With the release of eMAM 5.0 release, AI Artificial Intelligence has been incorporated in eMAM media workflows. eMAM is now integrated with various industry leading AI vendors such as Microsoft Azure Video Indexer, Amazon Rekognition, Amazon Transcribe, VoiceBase, IBM Watson (Speech to text and Media Video Enrichment), HPE IDOL, to leverage AI technology and its potentials for generating new media insights and perform improved and intelligent searches.

VoiceBase: VoiceBase transcribes audios or videos into a Searchable Database.

Need more info, refer: <https://www.voicebase.com/>

Microsoft Azure Video Indexer: Video Indexer is an AI cloud service for videos, that enables customers to extract, review, and curate insights from their videos.

Need more info, refer: <https://azure.microsoft.com/en-in/services/media-services/video-indexer/>

Amazon Rekognition: This Amazon AI tool is an image and video analysis service that detects and identifies faces, scenes, objects and more. Amazon Rekognition Image is used for image analysis which can detect labels, faces, text, moderation labels, celebrities.

Need more info, refer: <https://aws.amazon.com/rekognition/>

IBM Watson Speech to Text: Easily convert audio and voice into written text for quick understanding of content.

Need more info, refer: <https://www.ibm.com/watson/services/speech-to-text/>

IBM Watson Media Video Enrichment: Easily extracts various metadata automatically from multimedia contents.

Need more info, refer: <https://www.ibm.com/watson/media/watson-video-enrichment/>

Google Speech To Text: Google Speech To Text converts audio to text using Google's machine learning technology. (only applicable for audio assets)

Need more info, refer: <https://cloud.google.com/speech-to-text/>

Google Cloud Video Intelligence: Google Cloud Video Intelligence makes videos searchable, and discoverable, by extracting meaningful metadata from video files.

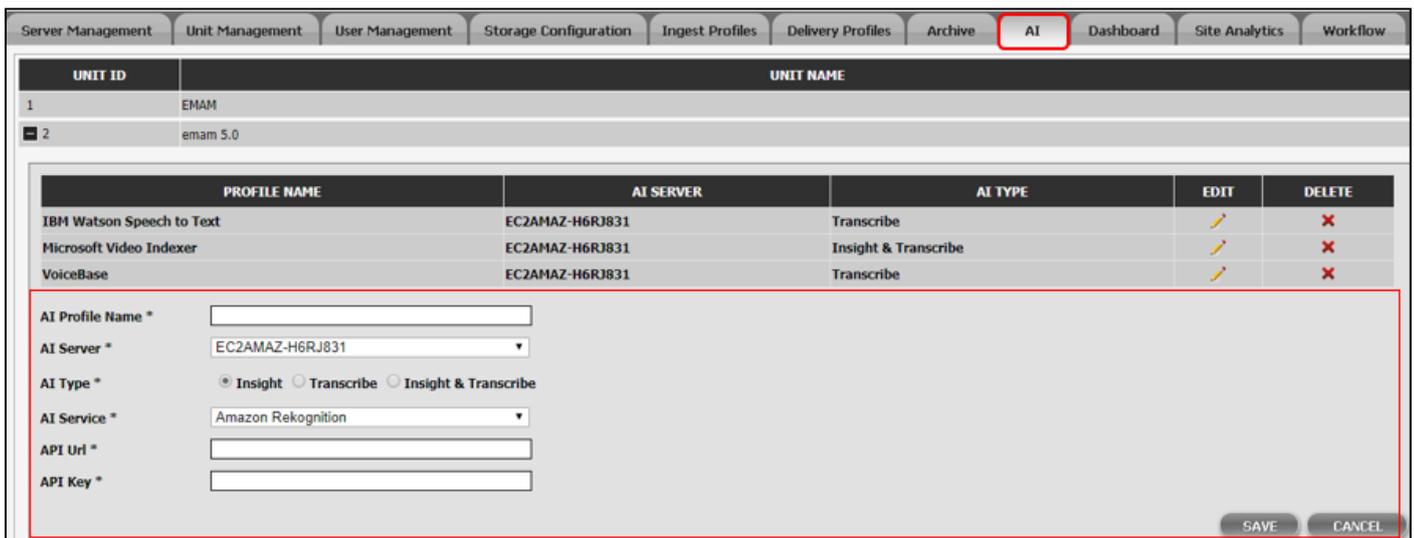
Need more info, refer: <https://cloud.google.com/video-intelligence/>

Microsoft Azure Computer Vision: Extracts rich information from images to categorize and process visual data. It uses Artificial Intelligence to read text & handwritten text in images and Face API detects, recognizes, and analyzes human faces in images.

Need more info, Refer: <https://azure.microsoft.com/en-us/services/cognitive-services/face/>
<https://azure.microsoft.com/en-us/services/cognitive-services/computer-vision/>

Using the eMAM AI workflow, assets (video and audio) ingested to eMAM can be sent to AI engines to extract meaningful visual and speech insights from the video/audio content.

Under AI tab, Super Admin can create various AI profiles using which insights and transcribes can be extracted and tagged to video and audio assets. AI profiles can be created for different units.



AI Tab

To create an AI profile, specify following details:

- AI Profile Name:** Enter AI profile name.
- AI Server:** Select the server where the AI Gateway services are hosted. *(To configure AI services in the eMAM system, under Server Management tab, define the eMAM Gateway URL hosting AI services for the Server. This URL is required for the AI services to communicate back to eMAM Gateway)*
- AI Type:** Choose any of the below AI types based on the AI vendor subscription chosen. *Different AI services provide different AI types.*

- ✓ **Insight**
- ✓ **Transcript**
- ✓ **Insight & Transcript**

- AI Service:** Based on the AI type selected, select the AI services displayed.

- ✓ **Insight:** (Amazon Rekognition/HPE IDOL Media Server)

- ✓ **Transcript:** (VoiceBase/IBM Watson Speech To Text)/HPE IDOL/Amazon Transcribe/Google Speech To Text)

- ✓ **Insight & Transcript:** (Microsoft Video Indexer/ IBM Watson Media Video Indexer/ Google Video Intelligence).

AI Type * Insight Transcribe Insight & Transcribe

AI Service * Microsoft Video Indexer

API Url *

API Key *

- e. **API URL:** Key in API URL to connect to 3rd party API (Not applicable for Amazon Rekognition)
- f. **API Key:** API Key: Key in API KEY to connect to 3rd party API (Not applicable for Amazon Rekognition)

Click **Save** to save the changes and **Cancel** to discard the changes. Below are few sample AI profiles configured:

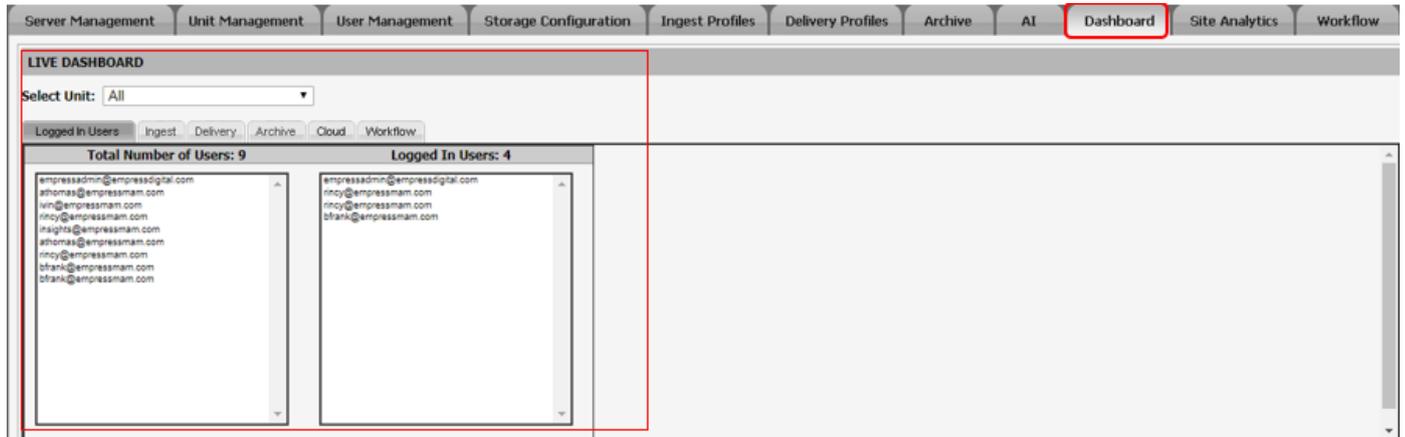
<p>AI Profile Name * Amazon Rekognition</p> <p>AI Server * EC2AMAZ-H6RJ831</p> <p>AI Type * <input checked="" type="radio"/> Insight <input type="radio"/> Transcribe <input type="radio"/> Insight & Transcribe</p> <p>AI Service * Amazon Rekognition</p> <p>API Url * N/A</p> <p>API Key * N/A</p>	<p>AI Profile Name * IBM Watson Media</p> <p>AI Server * EC2AMAZ-H6RJ831</p> <p>AI Type * <input type="radio"/> Insight <input type="radio"/> Transcribe <input checked="" type="radio"/> Insight & Transcribe</p> <p>AI Service * IBM Watson Media Video Enrichment</p> <p>API Url * https://api.ibm.com/watson/media/v1/enrichment/enrich</p> <p>API Key * P-TCQWAZL-C4M-2SL2L2L-NP4</p>
<p>AI Profile Name * IBM Watson Speech To Text</p> <p>AI Server * EC2AMAZ-H6RJ831</p> <p>AI Type * <input type="radio"/> Insight <input checked="" type="radio"/> Transcribe <input type="radio"/> Insight & Transcribe</p> <p>AI Service * IBM Watson Speech To Text</p> <p>API Url * https://api.ibm.com/watson/speech-to-text/v1/recognize</p> <p>API Key * P-TCQWAZL-C4M-2SL2L2L-NP4</p>	<p>AI Profile Name * Video Indexer</p> <p>AI Server * EC2AMAZ-H6RJ831</p> <p>AI Type * <input type="radio"/> Insight <input type="radio"/> Transcribe <input checked="" type="radio"/> Insight & Transcribe</p> <p>AI Service * Microsoft Video Indexer</p> <p>API Url * https://api.videoindexer.ai/v1/analyze</p> <p>API Key * P-TCQWAZL-C4M-2SL2L2L-NP4</p>
<p>AI Profile Name * Voice Base</p> <p>AI Server * EC2AMAZ-H6RJ831</p> <p>AI Type * <input type="radio"/> Insight <input checked="" type="radio"/> Transcribe <input type="radio"/> Insight & Transcribe</p> <p>AI Service * Voice Base</p> <p>API Url * https://api.voicebase.com/v1/transcribe</p> <p>API Key * P-TCQWAZL-C4M-2SL2L2L-NP4</p>	

AI profiles configured for different AI services

For more information on how to configure *Amazon Rekognition* and *IBM Watson Media Video Enrichment* AI profiles, please refer *Amazon Rekognition Configuration* document and *IBM Watson Media Video Enrichment Configuration* document.

9. Dashboard

This Live Dashboard displays total number of users and logged in users for All or the selected unit. It also has options to monitor ingest, delivery, archive, cloud processes and workflow actions.



Dashboard

For any given feature, you can select the unit, or select 'All' to see the details of all the units together. You can resubmit or delete the files that failed to deliver, upload or archive in the previous session. You can choose the number of assets to be displayed on each page (10, 25, 50 or 100), and navigate between pages. Click  to refresh the page.

9.1 Logged in Users

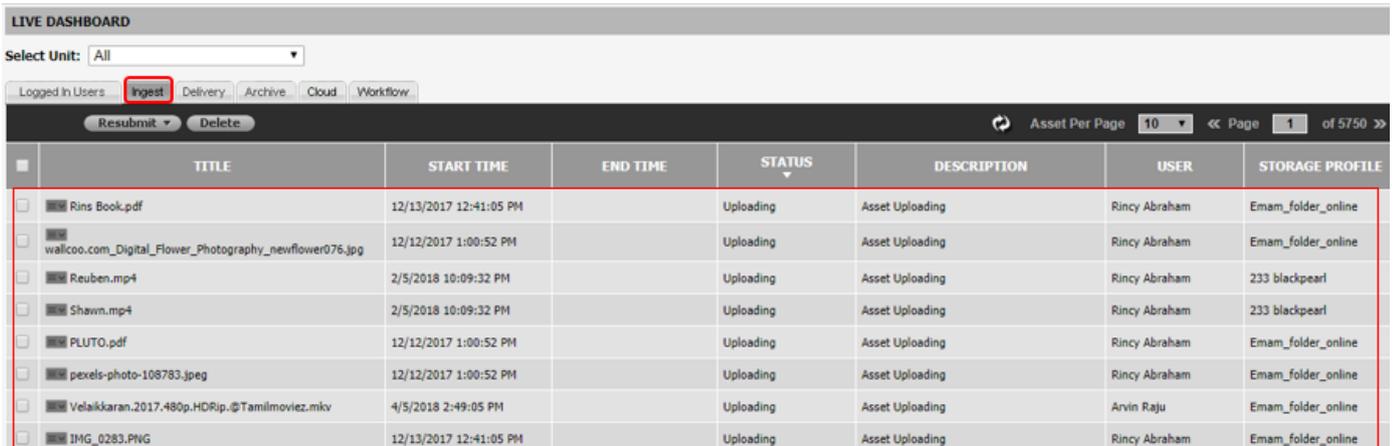
Total Number of users- If no unit is selected; it displays the total number of the users in the system. And if a unit is selected, total number of users in that unit is displayed. **Logged in Users-** Displays number of users that are logged in at a given time



Dashboard- Logged in Users

9.2 Ingest

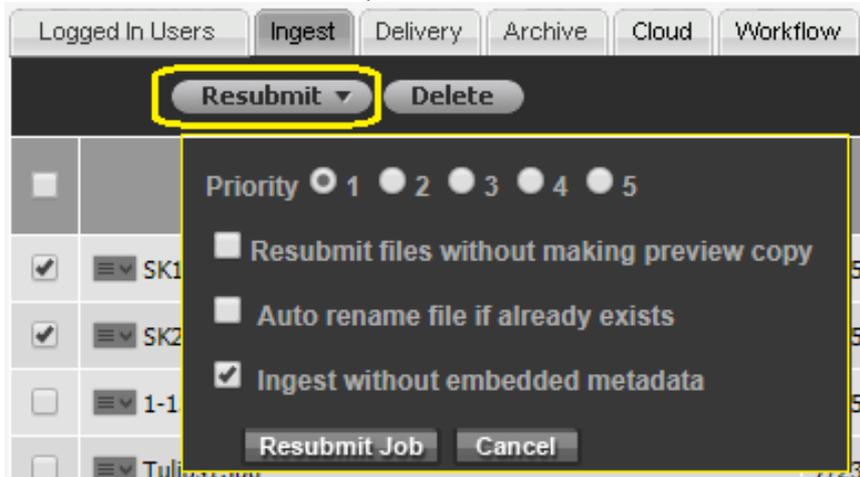
Ingest dashboard shows the status of files submitted for ingest by different methods like web upload, FTP upload, eMAM feeder etc.



	TITLE	START TIME	END TIME	STATUS	DESCRIPTION	USER	STORAGE PROFILE
<input type="checkbox"/>	Rins Book.pdf	12/13/2017 12:41:05 PM		Uploading	Asset Uploading	Rincy Abraham	Emam_folder_online
<input type="checkbox"/>	walicoo.com_Digital_Flower_Photohraphy_newflower076.jpg	12/12/2017 1:00:52 PM		Uploading	Asset Uploading	Rincy Abraham	Emam_folder_online
<input type="checkbox"/>	Reuben.mp4	2/5/2018 10:09:32 PM		Uploading	Asset Uploading	Rincy Abraham	233 blackpearl
<input type="checkbox"/>	Shawn.mp4	2/5/2018 10:09:32 PM		Uploading	Asset Uploading	Rincy Abraham	233 blackpearl
<input type="checkbox"/>	PLUTO.pdf	12/12/2017 1:00:52 PM		Uploading	Asset Uploading	Rincy Abraham	Emam_folder_online
<input type="checkbox"/>	pexels-photo-108783.jpeg	12/12/2017 1:00:52 PM		Uploading	Asset Uploading	Rincy Abraham	Emam_folder_online
<input type="checkbox"/>	Velaikaran.2017.480p.HDRip.©Tamilmoviez.mkv	4/5/2018 2:49:05 PM		Uploading	Asset Uploading	Arvin Raju	Emam_folder_online
<input type="checkbox"/>	IMG_0283.PNG	12/13/2017 12:41:05 PM		Uploading	Asset Uploading	Rincy Abraham	Emam_folder_online

Dashboard- Ingest

- Title**- Title of the asset
- Start time**- Start time of ingest
- End time**- End time of ingest
- Status**- Status of asset ingest
- Description**- Description related to the asset
- Delete**  - Option to delete selected asset(s) from the ingest queue. Select the assets and click on **Delete** button.
- Resubmit**- Option to resubmit failed assets during ingest. Admin can prioritize the tasks for Ingest from the Live Dashboard. Priority (1 to 5) can be set for individual assets or multiple assets.



Ingest Dashboard- Resubmit option

Various actions (*enable checkboxes*) that can be performed on the failed jobs during resubmit are:

- ✓ **Resubmit files without making preview copy**: Jobs will be resubmitted and ingested without a preview copy.
- ✓ **Auto rename file if already exists**: Resubmitted files will be auto renamed if they already exist in the system.
- ✓ **Ingest without embedded metadata**: When files fail as ImageMagick failed to extract embedded metadata, enabling this option will skip the ImageMagick embedded metadata

extraction process and will fetch only the basic metadata properties such as filename, author etc. as part of embedded metadata.

Assets can be selected individually and resubmitted as shown below:

<input checked="" type="checkbox"/>	SK1.mov	7/25/2018 7:03:53 PM		Uploading	Asset Uploading	Anoop Thomas	Azure Local Volume
<input checked="" type="checkbox"/>	SK2.mov	7/25/2018 7:03:53 PM		Uploading	Asset Uploading	Anoop Thomas	Azure Local Volume
<input type="checkbox"/>	Priority <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5	7/25/2018 7:03:53 PM		Uploading	Asset Uploading	Anoop Thomas	Azure Local Volume
<input type="checkbox"/>	<input type="checkbox"/> Resubmit files without making preview copy	7/23/2018 11:57:26 PM		Uploading	Asset Uploading	Anoop Thomas	Azure Local Volume
<input type="checkbox"/>	<input type="checkbox"/> Auto rename file if already exists	7/23/2018 11:57:26 PM		Uploading	Asset Uploading	Anoop Thomas	Azure Local Volume
<input type="checkbox"/>	<input type="checkbox"/> Ingest without embedded metadata	9/5/2018 11:56:55 AM		Processing	Generating Proxy	anuroop acc ac	
		9/11/2018 2:49:55 PM		Processing	Generating Proxy	anuroop acc ac	
	5 (2).mp4	9/12/2018 6:02:09 PM		Processing	Generating Proxy	anuroop acc ac	

Resubmit options for individual asset

Admin can enable '**Resubmit files without making preview copy**' and/or '**Auto rename file if already exists**' and/or 'ingest without embedded metadata' checkboxes to re ingest the failed jobs. Based on the priority set for each task, the transcoder will pick up the jobs accordingly. Priority (1-5) details:

- 1: Lowest priority (Default)
- 3: Medium priority
- 5: Highest priority

9.3 Delivery

Delivery dashboard shows the status of assets submitted for delivery. There is also option to Resubmit or Delete assets submitted for Delivery.

LIVE DASHBOARD						
Logged In Users Ingest Delivery Archive Cloud Workflow						
<input type="checkbox"/> Resubmit <input type="checkbox"/> Delete Option to Resubmit & Delete assets			Asset Per Page 10 Page 1 of 2			
	TITLE	DELIVERY PROFILE	START TIME	END TIME	STATUS	DESCRIPTION
<input type="checkbox"/>	Premiere Seq 7_25_14.mp4	TEST_VANTAGE	6/24/2015 9:11:39 PM	6/24/2015 9:12:34 PM	Failed	Source file not available
<input type="checkbox"/>	DaVinci_ingest2_Orange.mov	SubClip_Delivery	6/24/2015 8:38:06 PM	6/24/2015 8:38:43 PM	Failed	Asset delivering to network folder failed.
<input type="checkbox"/>	DaVinci_ingest2_Orange.mov	SubClip_Delivery	6/24/2015 8:37:37 PM	6/24/2015 8:38:43 PM	Failed	Asset delivering to network folder failed.
<input type="checkbox"/>	sh1201_rev02_L0013.dpx	Delivery Folder in FC storage	6/24/2015 7:20:54 PM	6/24/2015 7:21:05 PM	Failed	Asset delivering to network folder failed.
<input type="checkbox"/>	img_unknownexcel_asset.jpg	Delivery Folder in FC storage	6/24/2015 7:20:54 PM	6/24/2015 7:21:01 PM	Failed	Asset delivering to network folder failed.
<input type="checkbox"/>	MS.JPG	Delivery Folder in FC storage	6/24/2015 7:20:54 PM	6/24/2015 7:21:02 PM	Failed	Asset delivering to network folder failed.
<input type="checkbox"/>	eMAM Vault Cover Page.jpg	Delivery Folder in FC storage	6/24/2015 7:20:54 PM	6/24/2015 7:21:02 PM	Failed	Asset delivering to network folder failed.
<input type="checkbox"/>	Premiere Seq 7_25_14.mp4	Delivery Folder in FC storage	6/24/2015 7:20:54 PM	6/24/2015 7:21:02 PM	Failed	Source file not available
<input type="checkbox"/>	Red Fox_1.jpg	Delivery Folder in FC storage	6/24/2015 7:20:54 PM	6/24/2015 7:21:04 PM	Failed	Asset delivering to network folder

Dashboard-Delivery

- a. **Title**- Title of the asset
- b. **Delivery Profile**- Delivery profile selected while submitting asset for delivery
- c. **Start Time**- Start time of the delivery
- d. **End Time**- Time of the asset delivery
- e. **Status**- Status of the asset delivery
- f. **Description**- Description related to asset delivery

- g. **Delete**- Delete selected asset(s) from the delivery queue by clicking on the **Delete** button.
- h. **Resubmit**- List of assets queued for delivery can be resubmitted with an option to prioritize. Based on the priority set by the user for each task, the transcoder will pick up jobs. Priority (1-5) details:
- 1: Lowest priority (Default)
 - 3: medium priority
 - 5: Highest priority



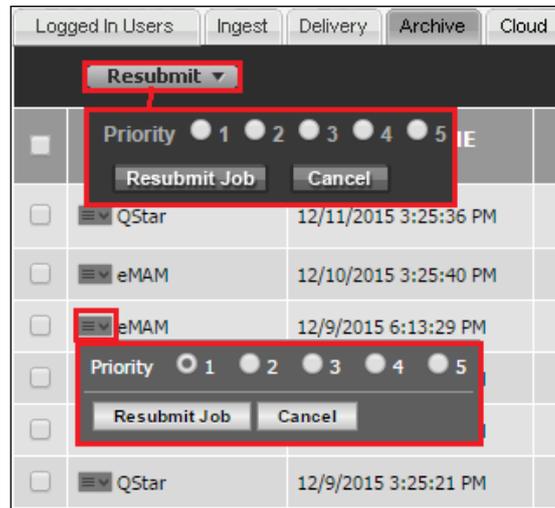
9.4 Archive

Archive dashboard displays the status of assets submitted for Archive/Restore.

Logged In Users Ingest Delivery Archive Cloud Workflow									
Resubmit									
Asset Per Page 10 << Page 1 of 143 >>									
	TYPE	START TIME	END TIME	TITLE	OPERATION	STATUS	DESCRIPTION	USER	
<input type="checkbox"/>	QStar	12/11/2015 3:25:36 PM		Vyshak V S_3yrs (Autosaved).docgdh55435353dfdg{{{{{S}}S}}	Archive	Added	Added from eMAM Task Manager	admin1 admin1	
<input type="checkbox"/>	eMAM	12/10/2015 3:25:40 PM		37 kuttanaadan kaayalile - kazhcha - karaoke.mp3	Archive	Added	Added from eMAM Task Manager	admin1 admin1	
<input type="checkbox"/>	eMAM	12/9/2015 6:13:29 PM		121212.mov.png	Archive	Added	Asset added to the queue	Shibin Abraham	
<input type="checkbox"/>	QStar	12/9/2015 3:25:21 PM		dadarani.mp4	Archive	Added	Added from eMAM Task Manager	admin1 admin1	
<input type="checkbox"/>	QStar	12/9/2015 3:25:21 PM		2copyfromsource.mp4	Archive	Added	Added from eMAM Task Manager	admin1 admin1	
<input type="checkbox"/>	QStar	12/9/2015 3:25:21 PM		1copyfromsource.mp4	Archive	Added	Added from eMAM Task Manager	admin1 admin1	

Dashboard-Archive

- a. **Type**: Archive type used
- b. **Start time**: Start time of archive
- c. **End time**: End time of archive
- d. **Title**: Title of the asset
- e. **Operation**: Type of operation Archive or Restore
- f. **Status**: Status of operation conducted.
- g. **Description**: Description related to archive/restore
- h. **User**: User details of person who performed this operation
- i. **Delete**: Option to delete selected asset(s) from the queue
- j. **Resubmit**: Option to resubmit asset(s) which failed archive/restore operations using priority list. Based on the priority set by the user for each task, the transcoder will pick up jobs. Priority (1-5) details:
 - 1: Lowest priority (Default)
 - 3: medium priority
 - 5: Highest priority



9.5 Cloud

The assets added for cloud upload to Amazon S3 bucket can be monitored here.

LIVE DASHBOARD					
Select Unit: All					
Logged In Users Ingest Delivery Archive Cloud Workflow					
TITLE	START TIME	END TIME	STATUS	DESCRIPTION	
2restore test-keep (1).mp4	10/18/2017 4:33:45 PM		cloudupload_Modified	Asset added for Cloud Upload	
2restore test-moveee.mp4	10/18/2017 4:33:51 PM		cloudupload_Modified	Asset added for Cloud Upload	
423423dvfert43.mp4	10/23/2017 11:52:55 AM		upload_Modified	Keyframe added for upload	
Earth -1322.mp4	10/23/2017 3:02:36 PM		upload_Modified	Keyframe added for upload	
Azure Analysis Services with Azure SQL DB and Data Warehouse	4/5/2018 2:32:56 AM		CloudPurge	Queued by eMAM Task Manager for Purge	
BigBuckBunnyLatest3128s1qa21212121112.mp4	4/5/2018 2:35:07 AM		CloudPurge	Queued by eMAM Task Manager for Purge	

Dashboard-Cloud

- Title:** Title of the asset.
- Start time:** Start time of cloud upload
- End time:** End time of job
- Status:** Status of operation conducted.
- Description:** Description related to cloud upload

9.6 Workflow

Administrators can now monitor a live dashboard detailing the status of workflows and processes. eMAM will report the success or failure of each workflow process and also if any issues that may arise during the execution of the workflow.

Active workflows that get triggered (*once the asset conditions are met or on the click of button metadata*) can now be monitored under this workflow tab of live dashboard. When a workflow is triggered, immediately that workflow gets displayed in the live dashboard with a series of its action, status and description.

LIVE DASHBOARD

Select Unit: All

Logged In Users | Ingest | Delivery | Archive | Cloud | **Workflow**

Enable Auto Refresh | Asset Per Page: 10 | Page 1 of 1

TITLE	WORKFLOW NAME	START TIME	END TIME	STATUS	DESCRIPTION
▶ Wok in Heels.mp4	Send to IBM Watson Speech to text	4/10/2018 8:23:57 PM	4/10/2018 8:23:58 PM	Completed	Message posted successfully!
▶ Wok in Heels.mp4	Send to IBM Watson Speech to text	4/10/2018 8:23:40 PM	4/10/2018 8:23:48 PM	Completed	Message posted successfully!
▶ Wok in Heels.mp4	Send to Microsoft Video Indexer	4/10/2018 8:23:33 PM	4/10/2018 8:23:38 PM	Failed	Asset is Queued or Running for Restore
▶ Wok In Heels 3 minutes.mp4	Send to Voice base	4/10/2018 8:22:25 PM	4/10/2018 8:22:39 PM	Waiting	Waiting for delivery to complete

Click on the dropdown icon corresponding to each workflow to expand and view the workflow chart/diagram and its progress. Each asset going through one workflow will be shown as one row. Therefore, if there are 2 active workflows, there will be 2 rows for the same asset in the dashboard grid. Each box in the diagram depicts actions like ingest, delivery, metadata change etc. and its statuses with details like date added, last updated, status and description.

The status of each action is depicted by different colors:

Completed – **Green** Failed – **Red** and Waiting - **Peach**

EMAM SUPER ADMIN CONSOLE | Welcome, amal@empressmam.com

Unit Management | User Management | Storage Configuration | Ingest Profiles | Delivery Profiles | Archive | Dashboard | Site Analytics | Workflow

LIVE DASHBOARD

Logged In Users | Ingest | Delivery | Archive | Cloud | **Workflow**

Enable Auto Refresh | Asset Per Page: 10 | Page 1 of 7

TITLE	WORKFLOW NAME	START TIME	END TIME	STATUS	DESCRIPTION
▶ 04 Parudeyam_song.mp3	Pasil Test	2/9/2017 9:47:39 AM	09-Feb-2017 03:17 PM	Failed	Condition failed
▶ 04 Parudeyam_song.mp3	Add MOS Workflow	2/9/2017 9:47:39 AM	2/9/2017 9:47:40 AM	Completed	Notification completed
▶ c7d3b7f9-a72f-41e5-9232-8214w7137b1de_14.png	Pasil Test	2/9/2017 9:09:27 AM	2/9/2017 9:09:37 AM	Completed	Successfully Delivered

2 active workflows

Workflow diagram details:

- Ingest:** Date Added: 09-Feb-2017 02:39 PM, Last Updated: 09-Feb-2017 02:39 PM, Status: Completed, Description: Condition Passed
- Delivery:** Date Added: 09-Feb-2017 02:39 PM, Last Updated: 09-Feb-2017 02:39 PM, Status: Completed, Description: Successfully Delivered
- Archive:** Date Added: 09-Feb-2017 02:39 PM, Last Updated: 09-Feb-2017 02:39 PM, Status: Duplicate, Description: Already archived
- Change Metadata:** Date Added: 09-Feb-2017 02:39 PM, Last Updated: 09-Feb-2017 02:39 PM, Status: Completed, Description: Metadata Changed
- Notify:** Date Added: Last Update, Status: Com, Description:

▶ c7d3b7f9-a72f-41e5-9232-8214w7137b1de_14.png	Add MOS Workflow	2/9/2017 9:09:27 AM	2/9/2017 9:09:58 AM	Waiting	Waiting for delivery to complete
--	------------------	---------------------	---------------------	---------	----------------------------------

Live Dashboard- Workflow

E.g.: See below workflow created. For all Image files with XDCAM as Camera metadata field, change metadata field Director to Bibin. Here action Type is Change Metadata.

Server Management | Unit Management | User Management | Storage Configuration | Ingest Profiles | Delivery Profiles | Archive | Dashboard | Site Analytics | Workflow

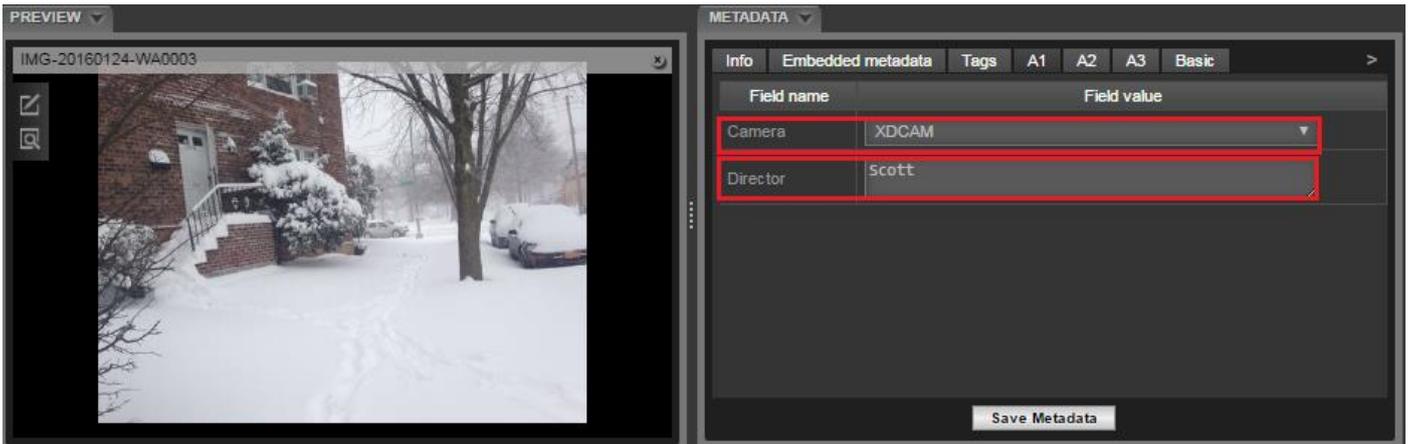
UNIT ID | **UNIT NAME**

2 | EMAMTEST

MANAGE WORKFLOW | + New Workflow

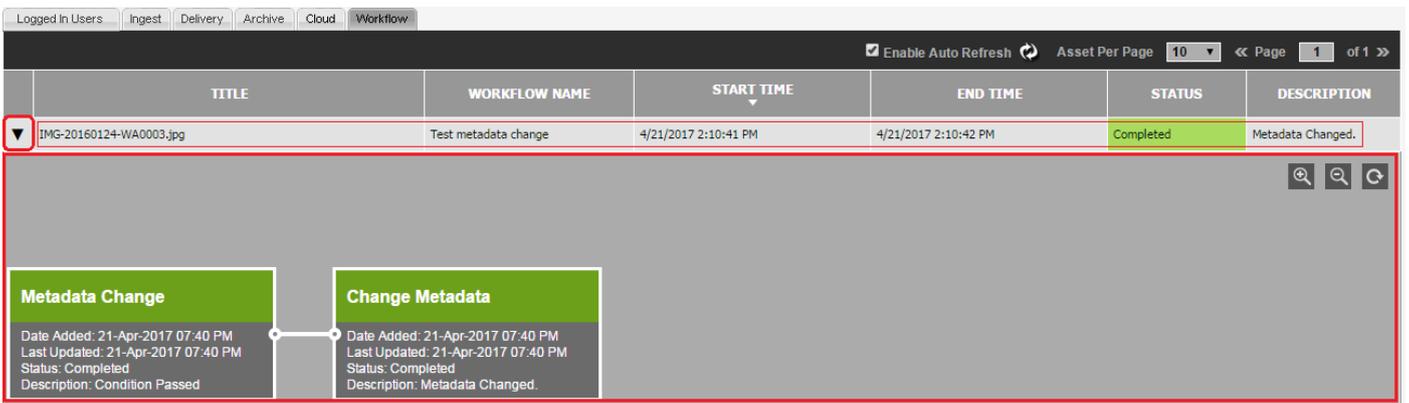
Name	Description	Created On	Status	Edit	Delete
Test metadata change	d	Mar 24 2017 2:28PM	Active		

When an asset metadata field Camera is updated as *XDCAM* in the eMAM Director interface, automatically workflow is triggered, and Director Custom metadata field type gets changed to *Bibin* automatically.



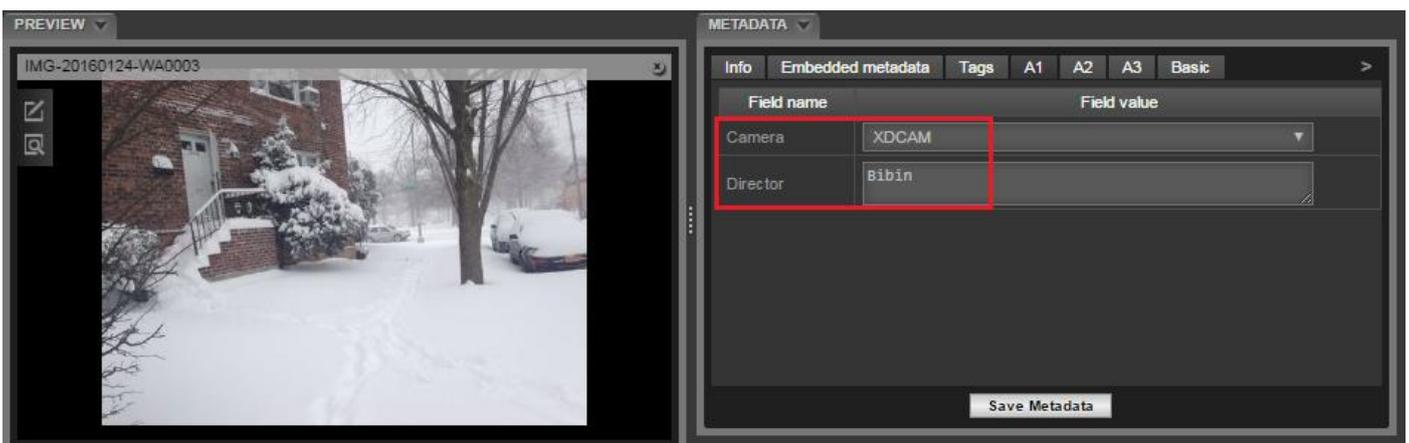
Metadata widget- Director Metadata field shows Scott

Immediately the workflow gets triggered, and metadata of that asset is changed to *Bibin*. View the workflow actions live under workflow dashboard. Here the below workflow successfully gets completed (green color).



Live Dashboard for a completed workflow

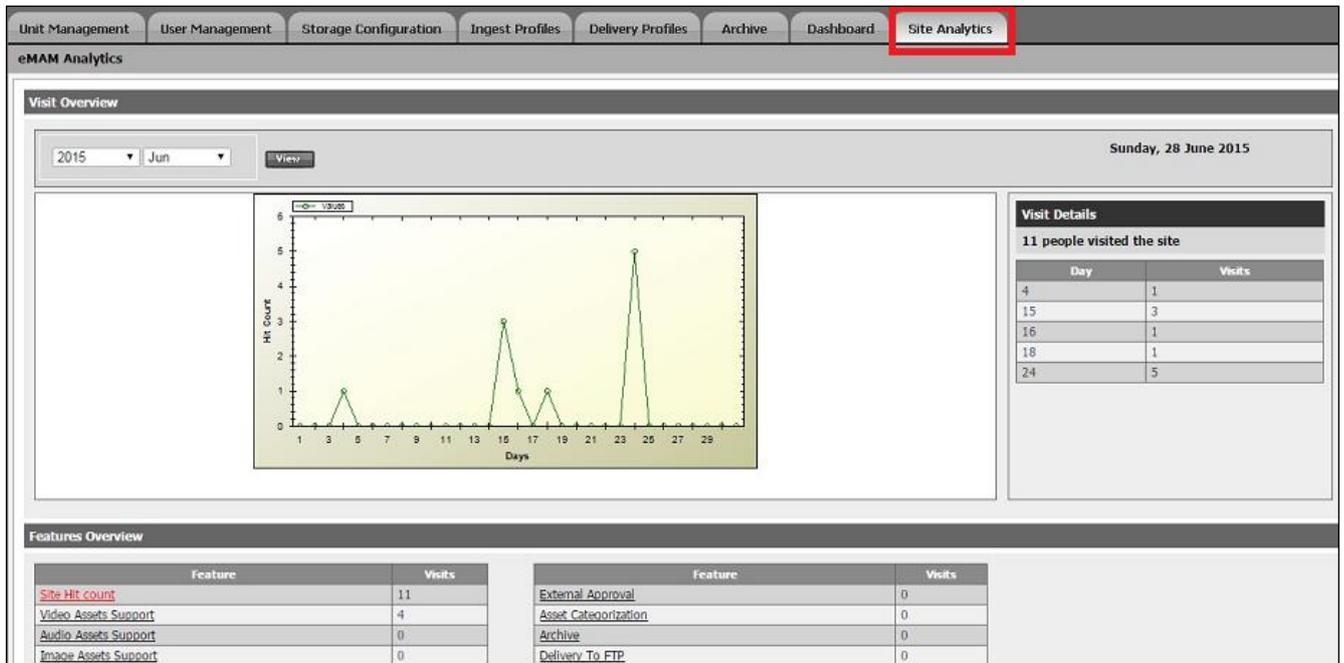
Director Metadata field automatically gets updated to *Bibin*.



Metadata widget- Director Metadata gets changed to Bibin as per the workflow

10. Site Analytics

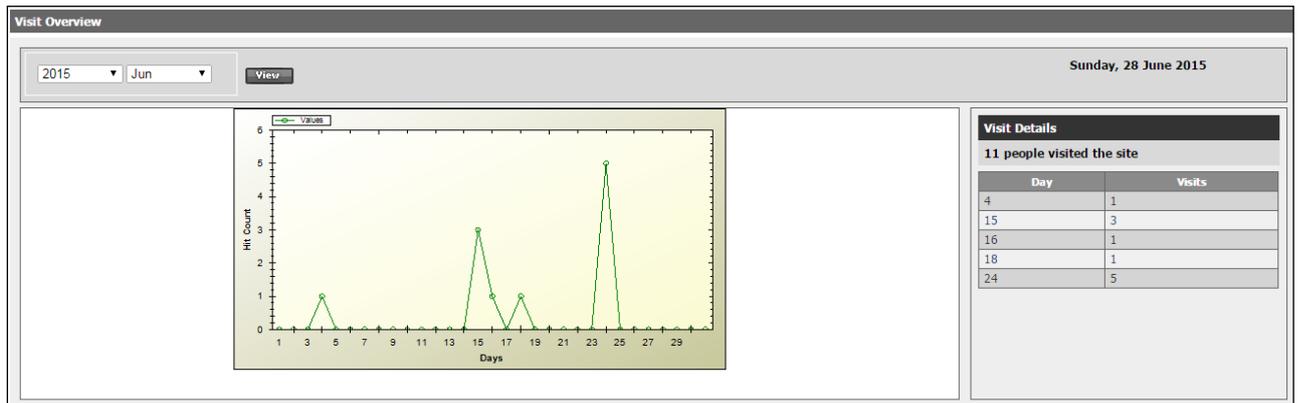
eMAM Super Administrator can monitor the usage of application features by different users for the specified time period using Site Analytics. Super Admin can select the profile, and month from the drop-down menu, and click “View”. You can see total visitor to the site, and Features overview which displays how many times each feature has been used.



Site Analytics screen

10.1 Visit Overview

This feature helps to monitor the number of visits made in the selected month and year for a given unit.



Visit Overview

10.2 Features Overview

This feature allows monitoring of each feature including the number of times the site got hit, and number of times other features such as search, editing, approval, report etc. were used.

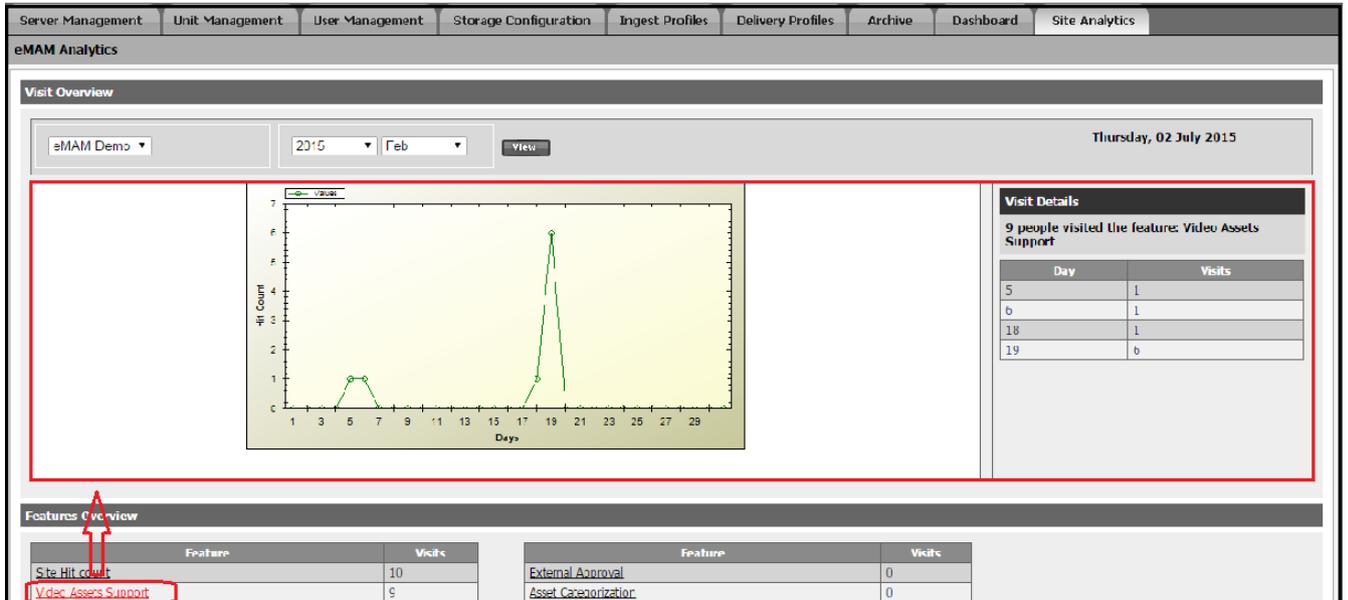
Features Overview	
Feature	Visits
Site Hit count	11
Video Assets Support	4
Audio Assets Support	0
Image Assets Support	0
Other Assets Support	0
Projects	0
Advanced Search	0
Custom Metadata	0
Annotations	0
Proxy Editing	0
Rating	0
Internal Approval	0

Feature Overview

When we click on any feature listed in Feature overview, corresponding visit details appear on Visit overview tab.

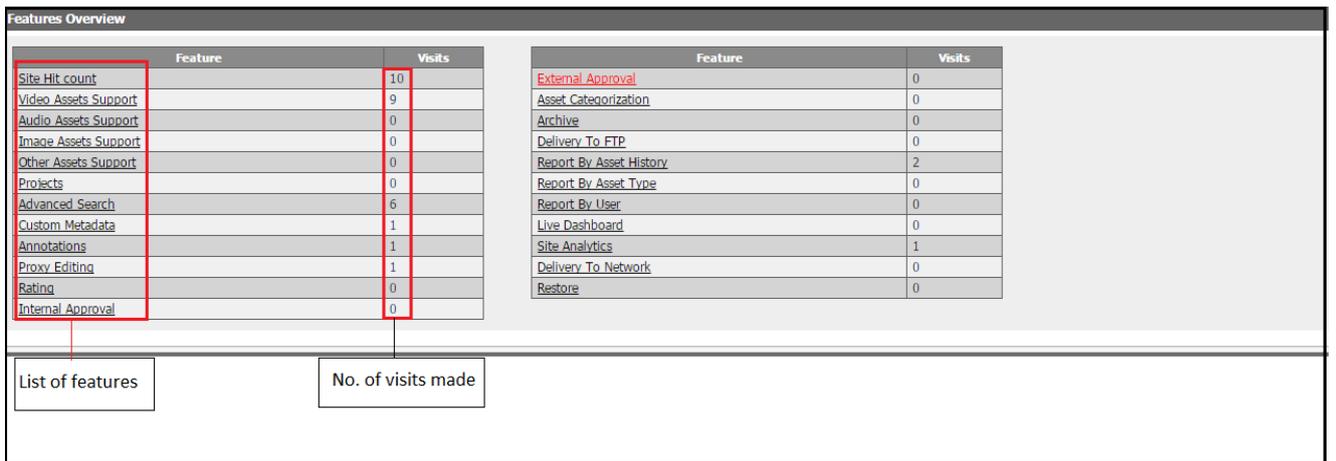
The screenshot shows the 'Visit Overview' tab in the eMAM Analytics console. At the top, there are navigation tabs: Server Management, Unit Management, User Management, Storage Configuration, Ingest Profiles, Delivery Profiles, Archive, Dashboard, and Site Analytics. The 'Visit Overview' tab is active. Below the navigation, there are filters for 'eMAM Demo', '2015', and 'Feb', along with a 'View' button. A date indicator shows 'Thursday, 02 July 2015'. The main area contains a line graph titled 'Hit Count' showing data points for 29 days. To the right, a 'Visit Details' table shows '10 people visited the site' with columns for 'Day' and 'Visits'. At the bottom, a 'Feature Overview' table is visible, with 'Site Hit count' highlighted by a red box and an arrow pointing to the graph.

Screen when Site Hit Count is selected



Screen when Video Assets Support selected

Similarly, we can view the Visit details for various features in eMAM by clicking on that feature.



Feature Overview screen

11. Workflow

You can create workflows to automate events and actions. Workflow automation is a set of actions (operations) performed on satisfying a set of conditions provided for an event. Each workflow has 2 parts – Events & Actions. Event is a point to start the workflow like Ingest, Custom Metadata Change, Asset Info Change, Button Metadata Click and Cloud Upload. Under each event, we can set one or more conditions so that once these conditions are met, the said actions can be performed. Various actions include Delivery, Archive, Change Metadata, Notify, Manage Category and Manage Project and AI Indexing. You can create multiple workflows with different operations and customize it.

Admin can customize and create multiple workflows with different actions under a unit. Once the workflow is created and is in active mode, it gets triggered automatically reducing manual effort. Workflow automation feature can effectively handle multiple workflows to make the system more flexible and also acts as a bridging system for different features in eMAM.

e.g.: Workflow – An asset when ingested needs to be delivered to a particular location.

- Create a new workflow by adding workflow name and description.
- Event- Select Event type as 'Ingest'
- Set the conditions of this workflow as required.
- Select Action type as 'Delivery' and click 'Add'. Select Delivery profile and Priority level and click 'Save'.

Admin can activate  or de-activate  workflows created under status column. Once the workflow is created and is in active mode, it works automatically thus minimizing the manual effort. Admin can also edit the existing workflows using  icon.

UNIT ID	UNIT NAME	
+ 2	eMAM 5.1	
- 1002	Marketing	

MANAGE WORKFLOW							+ New Workflow
ID	Name	Description	Created On	Status	Edit	Delete	
19	Send to Microsoft Video Indexer		Apr 4 2019 5:31PM	Active 			
18	Send to Google Speech To Text		Mar 18 2019 3:24PM	Active 			
17	Send to Google Video Intelligence		Mar 18 2019 3:22PM	Active 			
16	Send to Google Vision	Send to Google Vision	Mar 5 2019 11:54PM	Active 			
15	Add assets to NRCS	Add assets to NRCS	Feb 21 2019 5:36PM	Active 			
11	Send to Azure Computer Vision		Feb 4 2019 2:43PM	Active 			
10	Watson Video Enrichment	Watson Video Enrichment - Marketing	Feb 4 2019 1:32PM	Active 			
9	VoiceBase Enrichment	VoiceBase Enrichment - Marketing	Feb 4 2019 1:31PM	Active 			
8	Image Analysis		Feb 1 2019 9:27PM	Active 			

Workflow screen

Few advantages of workflows are listed below:

- ✓ It minimizes manual effort as the operations are automatically performed.
- ✓ User can create multiple workflows with different operations under a unit.
- ✓ Automates almost all features and end to end workflow of the customer.
- ✓ Make the system more powerful, fast and efficient.
- ✓ One-time settings are to be configured to perform repeated actions.
- ✓ Easy customization of workflows.
- ✓ Once the workflow is created and in active mode it works automatically without human intervention.
- ✓ Effectively handles multiple workflows.

11.1 New Workflow

To create a new workflow, click on the 'New Workflow' button. A new window pops up. Fill in the below details:

New Workflow window

- **Workflow Name:** Enter the name of the Workflow.
- **Description:** Enter description of the project.

11.2 Event Type

You can create a workflow on any event type from the dropdown list. e.g.: **Ingest, Custom Metadata Change, Scheduler, Asset Info Change, Button Metadata Click and Cloud Upload**. For any workflow, you can only have one event at a time, but multiple actions can be added.

- **Ingest:** Workflow can be created with Ingest as event type. Upon ingest of assets, certain action will be automatically performed (*provided workflow conditions are met*)
- **Custom Metadata Change:** Workflows can be created for Custom metadata change event type. E.g., if there is any change in custom metadata, automatically certain action will be performed (provided workflow conditions are met)
- **Scheduler:** Workflows can be created and scheduled to trigger on a specific date and time using Schedule metadata field types. Automatically the workflow will get triggered on the specified date and time. More details refer section [Scheduled Workflow](#).
- **Asset Info Change:** Workflows can be created for changing asset info event type. E.g., if there is any change in any asset info, automatically certain action will be performed (provided workflow conditions are met)
- **Button Metadata Click:** Workflows can be created associated with button metadata. Using this event type, users can fire a workflow based on a button click in the Metadata widget. Button metadata can be linked to a workflow and once that workflow is saved and active, any user that clicks on that button will indeed trigger the workflows that are linked with that particular button. More details, refer section [Button Metadata workflow](#).
- **Cloud Upload:** Workflows can be created with Cloud Upload as Event Type to upload assets to cloud. Conditions can be selected as Upload Completed, Purge completed, Upload error, Purge error, Thumbnail upload failed.

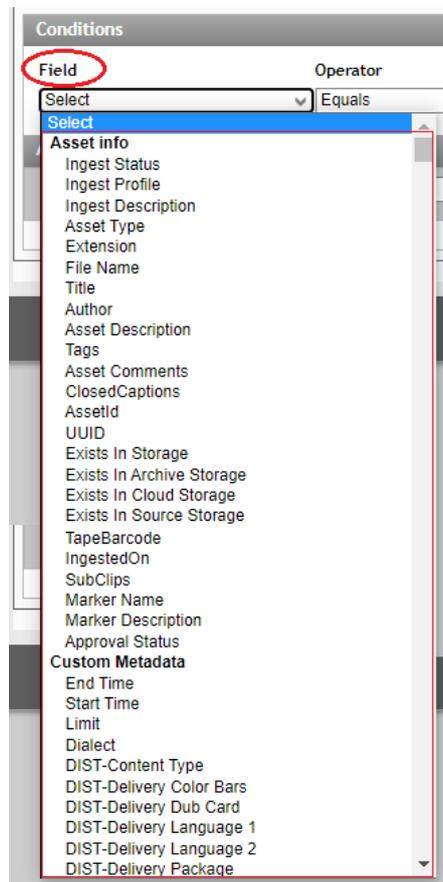
11.3 Conditions

For each *Event type* selected for a workflow, various conditions can be set and only if those conditions are satisfied, the action set in the workflow will be automatically performed. Based on the *Event* type selected, window expands to fill in the *Conditions* and select *Action* Type details. Variables under Conditions change based on the *Event Type* selected.

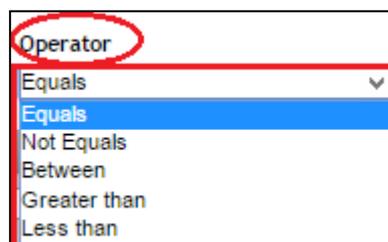
For example, for an event type *Ingest*, we can provide certain conditions which will be checked for each asset ingested into eMAM and once those conditions are satisfied, the actions provided in the workflow will be automatically performed.

Below are the conditions that can be set for any workflow for any Event Type:

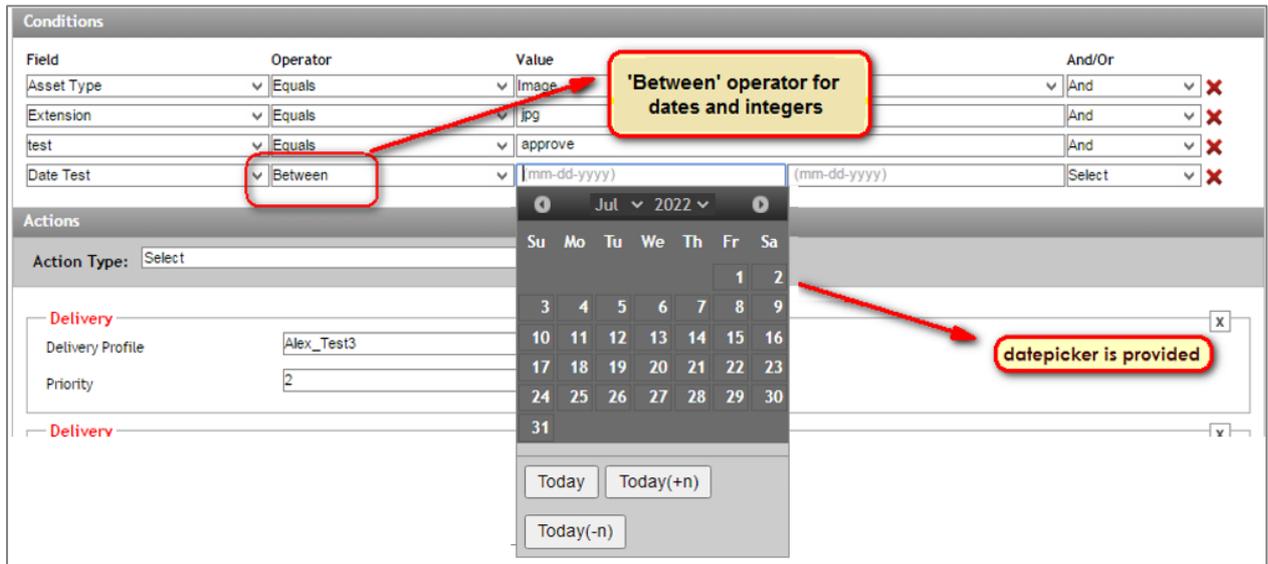
- a. **Fields:** You can select from the various details like File name, Ingest Status, Ingest Profile, Asset Type, Extension, Custom Metadata, Embedded Metadata etc. under 'Field'. Depending on the Event Type selected, list of items under Fields dropdown also changes.



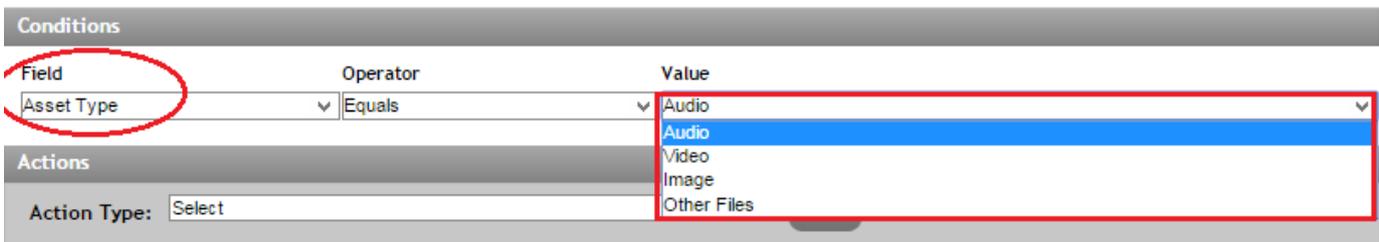
- b. **Operator:** Based on the type of 'Filed' selected, operators can be selected from the list provided. Operator values will change based on the *Fields* value selected.



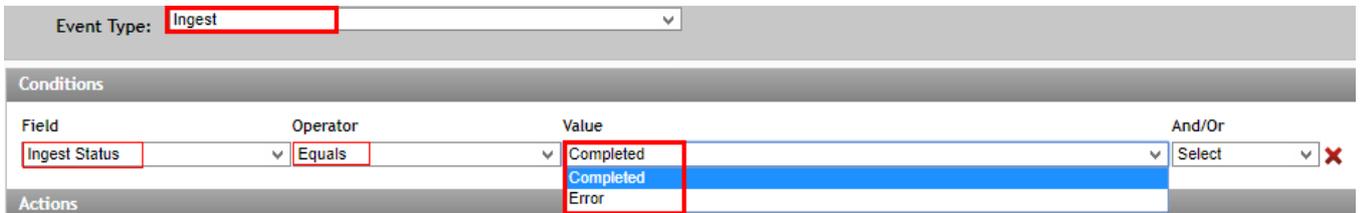
'Custom metadata' field will show operator '**Between**' for dates and integer Values.



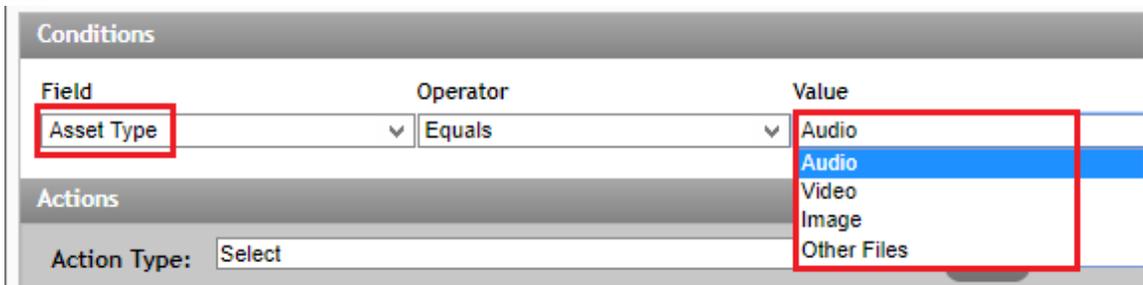
- c. **Value:** Based on the Event Type, 'Field' and Operator value selected, corresponding 'Value' field list also changes.



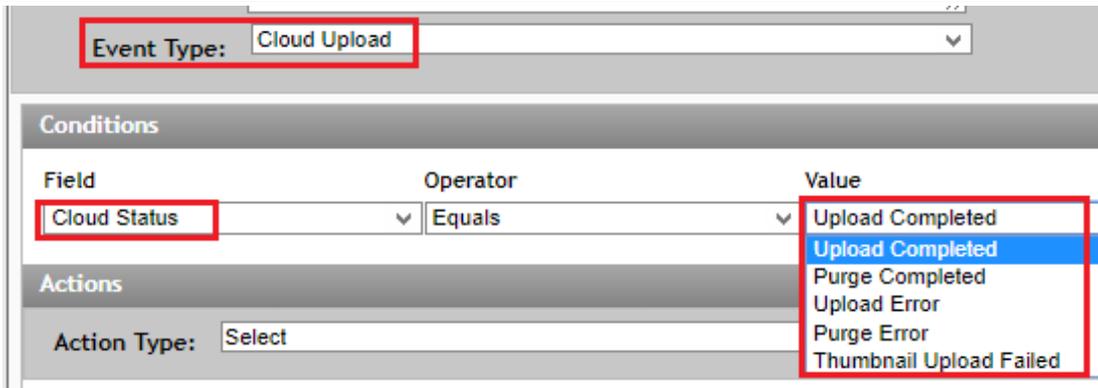
e.g.,1: For **Event Type** *Ingest*, **Field** *Ingest Status*, **Operator** *Equals*, **Value** can be *Completed* or *Error*.



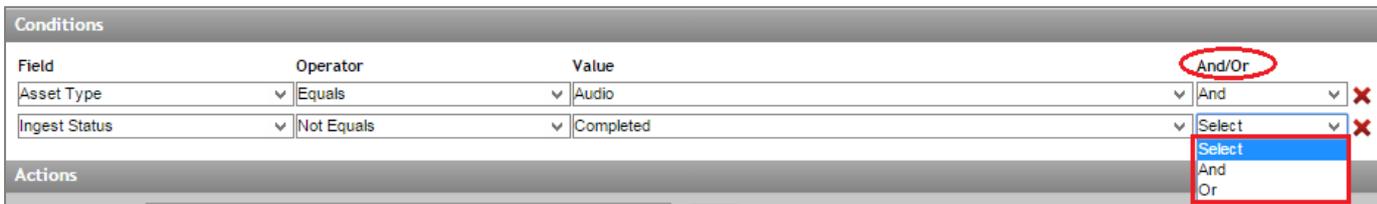
e.g., 2: For **Event Type** *Ingest*, **Field** *Asset Type*, **Operator** *Equals*, **Value** can be *Audio*, *Video*, *Image* or *Other Files*.



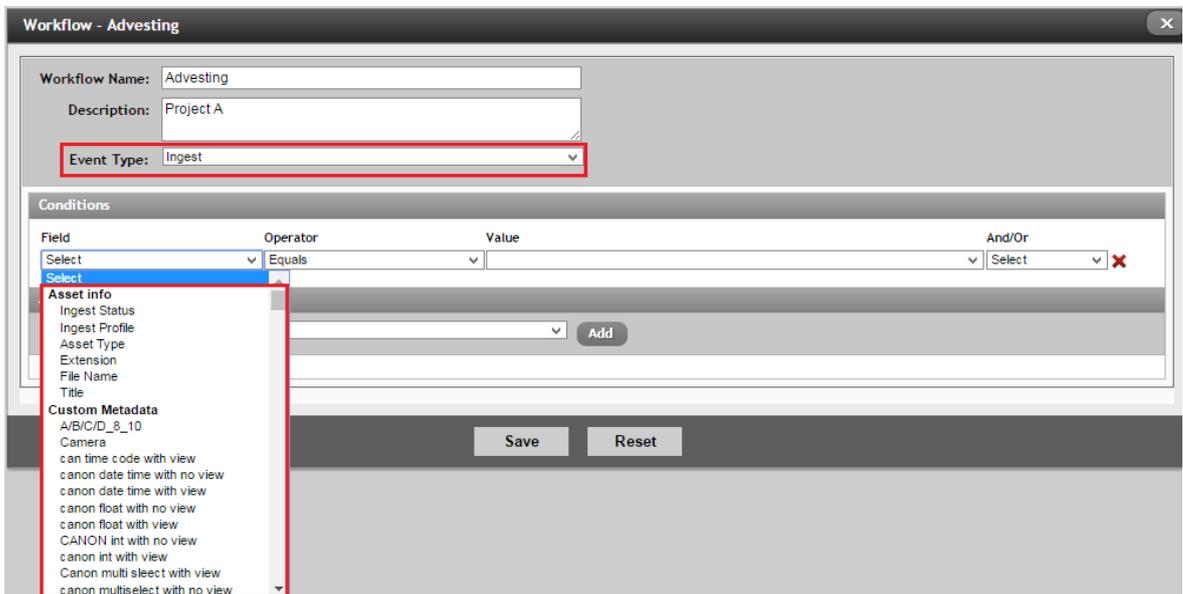
e.g., 3: For **Event Type** *Cloud Upload*, **Field** *Cloud Status*, **Operator** *Equals*, **Value** *Upload Completed*, *Purge completed*, *Upload error*, *Purge error*, *Thumbnail Upload failed*



- d. **And/Or:** Any no. of conditions can be set using And/Or option. ✗ Icon can be used to delete any condition added.



- i. **Event Type – Ingest:** For *Ingest* Event Type below variables can be selected from Asset info and Custom variables under Conditions fields.



- ii. **Event Type: Custom Metadata Change:** When *Custom Metadata Change* Event Type is selected, Custom Metadata variables can be selected under *Conditions*.

New Workflow

Workflow Name:

Description:

Event Type: Custom Metadata Change

Field	Operator	Value	And/Or
Select	Equals		Select

Field dropdown options: Select, Custom Metadata Editor, Producer

Buttons: Save, Reset

- iii. **Event Type- Asset Info Change:** For *Asset Info Change* Event Type, below asset variables like Titles, author, descriptions can be selected under Conditions Field.

Workflow - Advesting

Workflow Name: Advesting

Description: Project B

Event Type: Asset Info Change

Field	Operator	Value	And/Or
Select	Equals		Select

Field dropdown options: Select, Asset Info Title, Asset Info Author, Asset Info Description

Buttons: Save, Reset

- iv. **Event Type- Button Metadata Click:** For *Button Metadata Click* Event Type, an additional option Button Metadata gets displayed to select from the list of Button Metadata already created. To trigger any workflow, select **Button Metadata Click** Event type. To enable *Button Metadata Click* workflow, choose the **Button Metadata** (created in Admin interface or Admin tools page) from the down list under *Conditions*. Workflow gets linked to the selected Button Metadata.

New Workflow

Workflow Name:

Description:

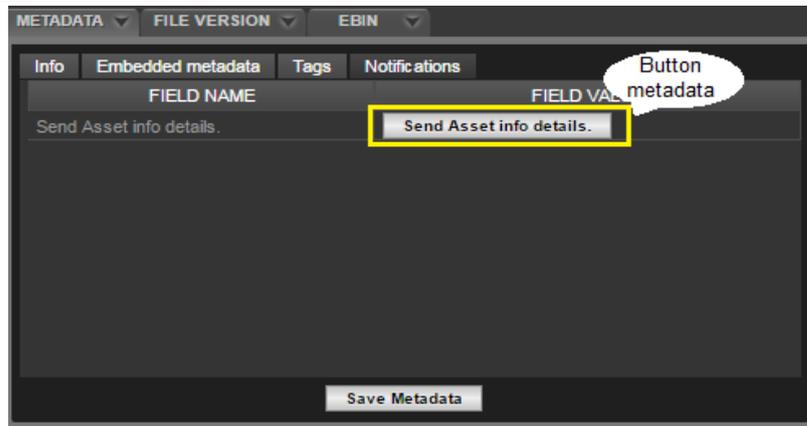
Event Type: Button Metadata Click

Field	Operator	Value	And/Or
Select			Select

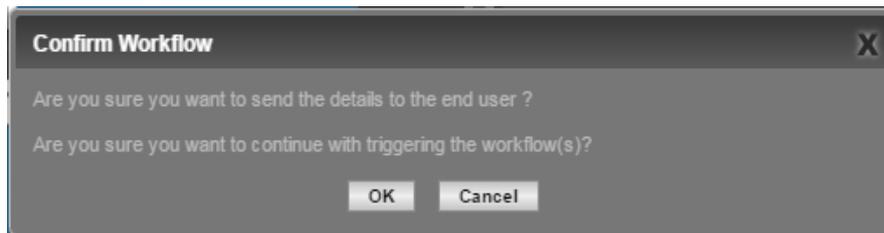
Field dropdown options: Button Metadata Move Category Test, Button Metadata Open the video in VR Player, Button Metadata Send to IBM Watson Speech To Text, Button Metadata Send to Video Indexer, Button Metadata Send to VoiceBase

Buttons: Save, Reset

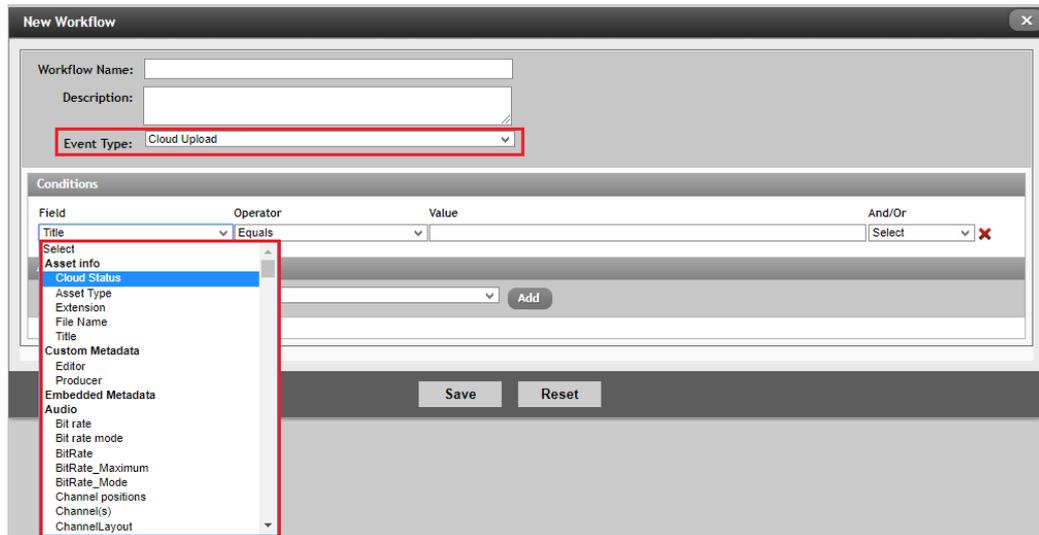
Set the Conditions and the Action Type to create your desired workflow and click *Save*. Button metadata automatically gets linked to this workflow. Button metadata is displayed under the *Metadata* widget of an asset. Click on this **Button metadata** to trigger this workflow.



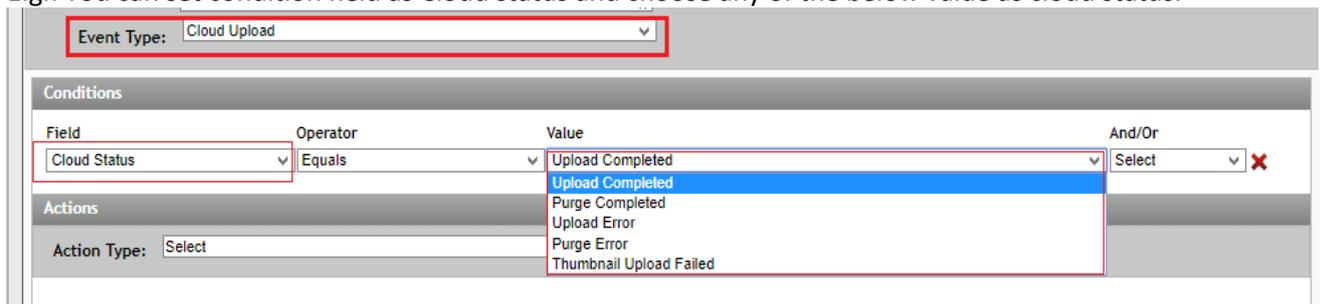
A confirmation message box displays to confirm workflow trigger. Click Ok to confirm workflow trigger.



- V. **Event Type- Cloud Upload:** You can choose Event Type as *Cloud upload* and set different conditions for the workflow like cloud status equal to *Upload Completed, Purge Completed, Upload Error, Purge Error, Thumbnail Upload Failed*.

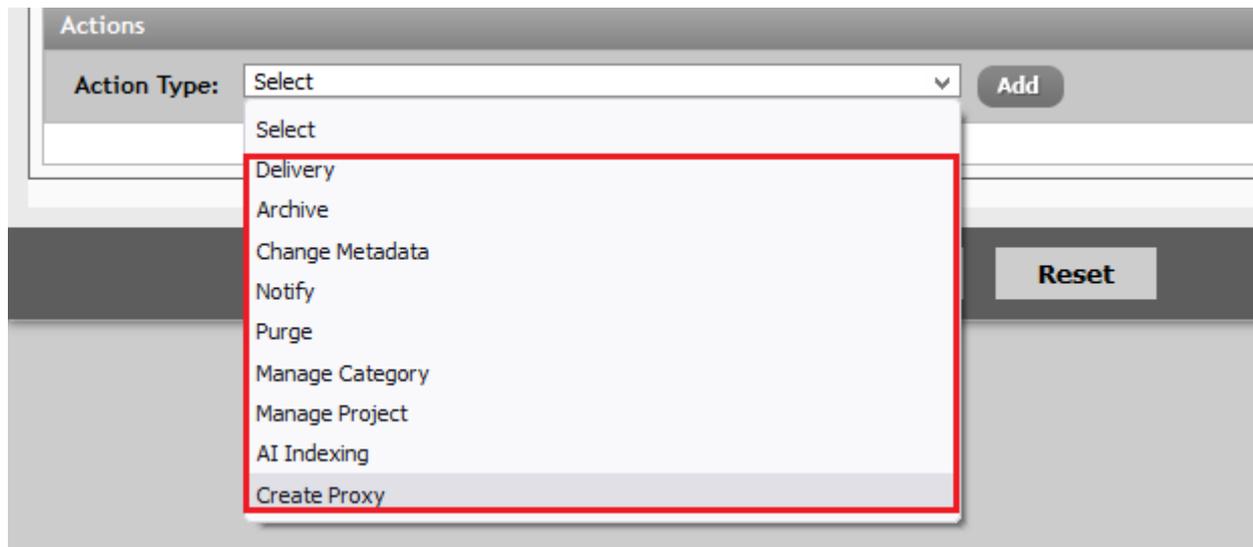


E.g.: You can set condition field as Cloud status and choose any of the below value as cloud status.



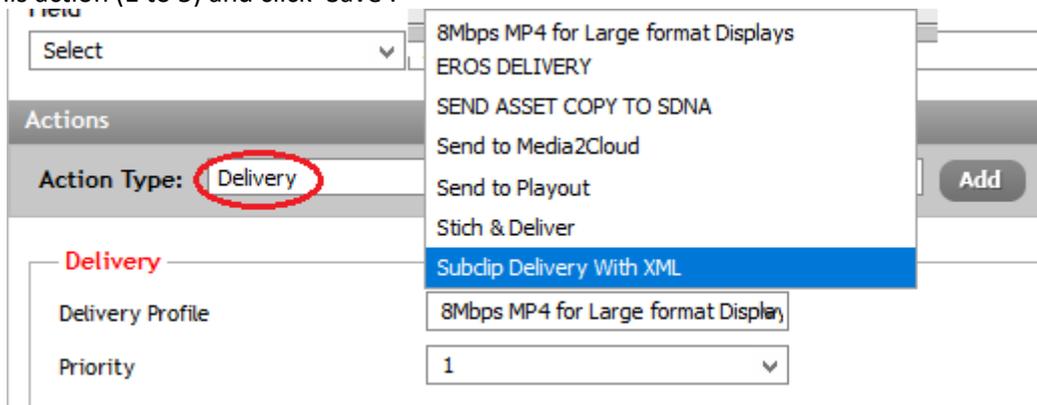
11.4 Action type

Actions are the changes that are to be automated when the events conditions are satisfied. After conditions are set, select the action type required for the workflow. Based on the action type selected (*Delivery, Archive, Change Metadata, Notify, Purge, Manage Category, Manage Project, AI Indexing, Create Proxy*), it will be automatically performed after all the conditions set earlier are met for the workflow. Click **'Save'** to save the changes the details or click **'Reset'** to discard the changes. A single workflow can have only one Event at a time, but multiple actions can be added using **Add** button.

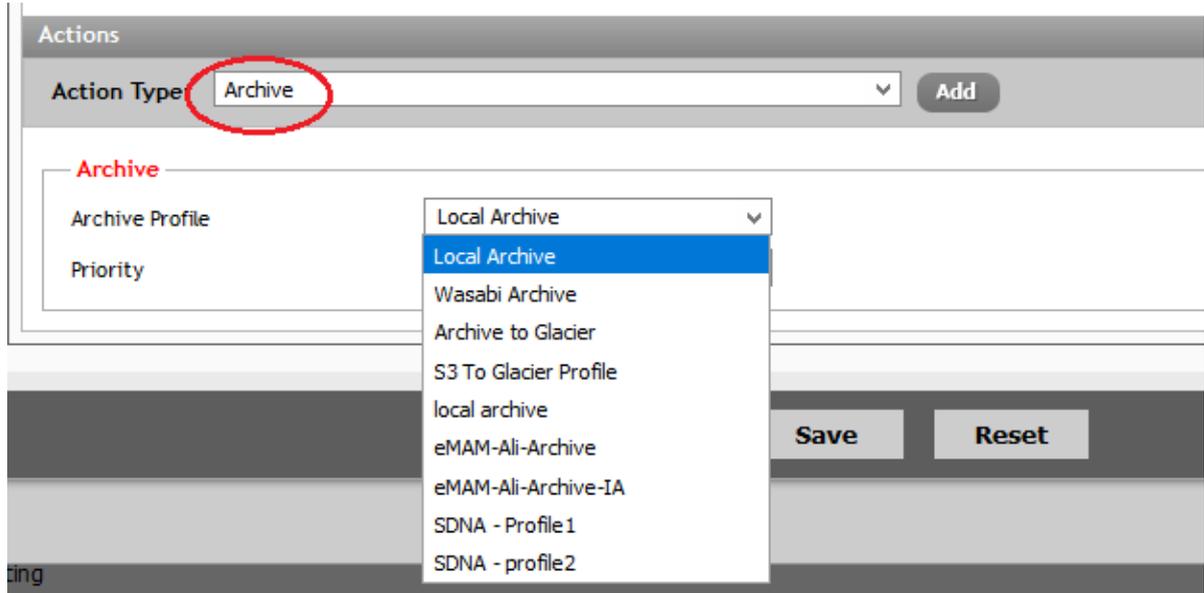


Actions Type

- a. **Delivery:** For action type 'Delivery', select your preferred delivery profile from the list and select the priority level for this action (1 to 5) and click 'Save'.

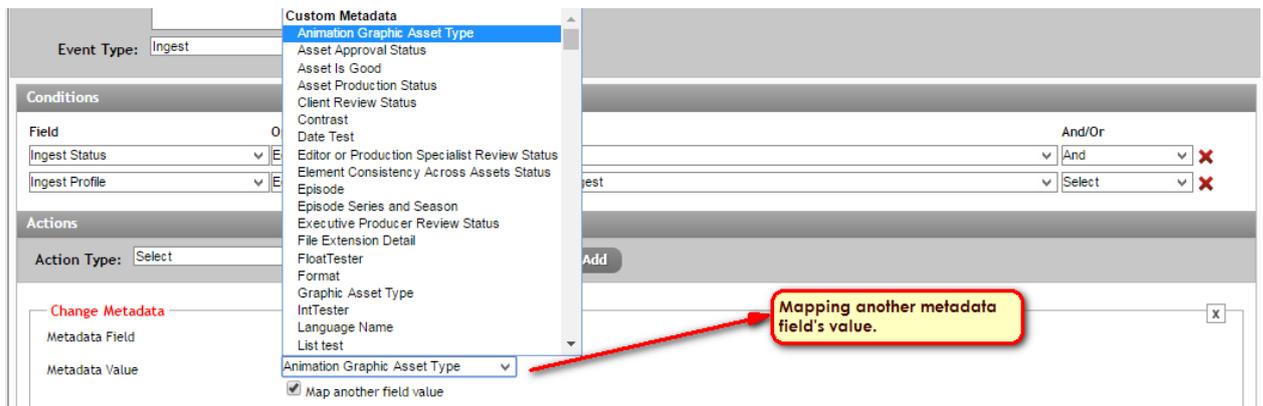


1. **Archive:** For Archive 'Action type', select your preferred Archive location from the list and also select the priority level for this action and click 'Save'.

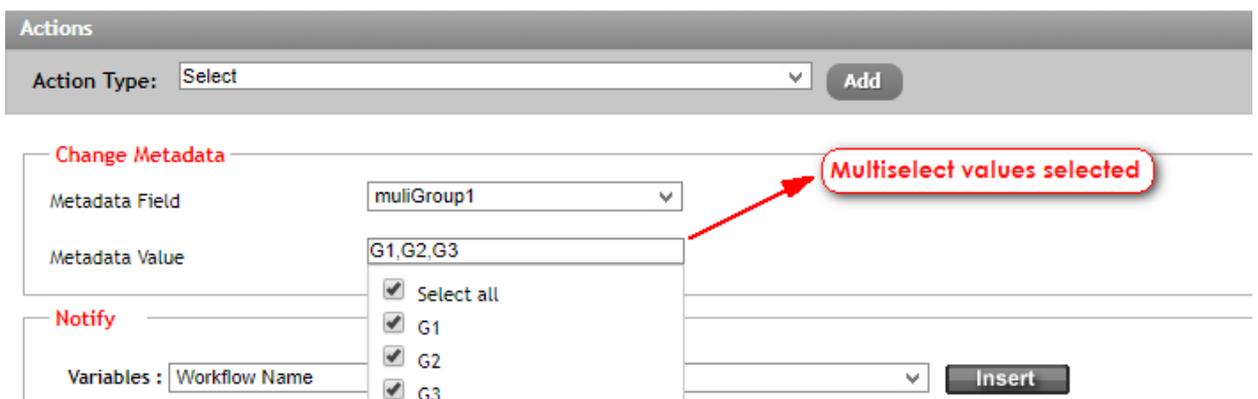


2. **Change Metadata:** Using this *Action* type, you can add new metadata to an asset or assign a new value to a metadata field (including *scheduled metadata*) and also map the value of another metadata field of the same asset.

Select the metadata field from the dropdown list. If you wish to add value of another metadata fields for the same asset, click on 'Map another field value' and select the Metadata value field.

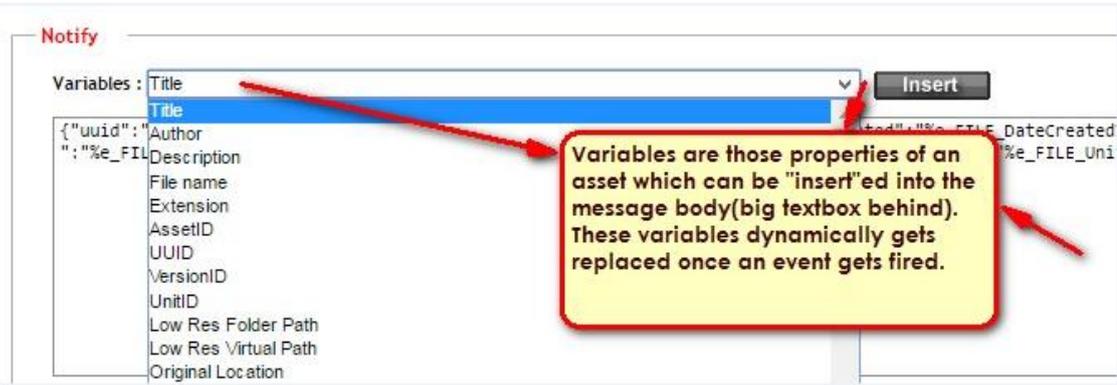


For multi select metadata types, you can multiselect values from the dropdown list as shown below:

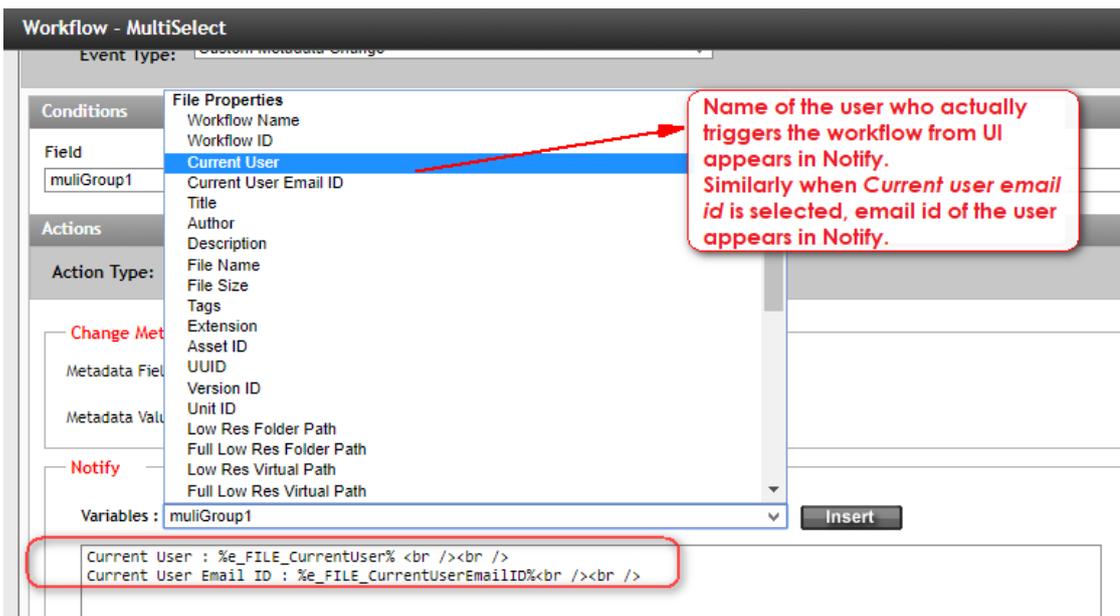
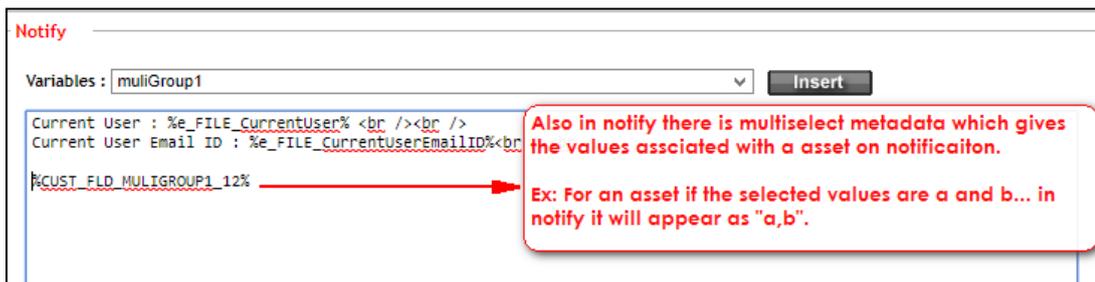


3. **Notify:** Using *Notify* Action type, you can send data either to email or to a URI or REST. Every time a condition is met, it will send email or data to a URI or REST. You can also include “post URL” for Notify action.

- a. **Email:** Enter the email address where the data needs to be sent. Using email, you can send information regarding the asset operation to one or multiple emails. For email Notify type, fill in below details:
- ✓ **Email Subject:** Subject line of the email.
 - ✓ **DB mailing Profile name:** Provide a database mail profile name which can be setup in management plans of SQL server.
 - ✓ **Variables:** Select from the list of variables available under Basic properties, File Properties like workflow name, workflow id, title, author, description, file name, file size, tags, extensions, asset id, UUID, thumbnail, duration, bit rate, frame rate, original location, Custom metadata types, full original path, extension, subtitle, audio path variables (Post request URL) Subtitle, Audio, Other file attachment, Subtitle, Audio, Other file attachment paths variables and click on **Insert** button.



If multiselect custom metadata type is selected from the Variables list, values associated with assets are notified.



- b. **URI:** Using URI, you can post data to a URI. Enter the URI where the data needs to be sent.
 - ✓ **Variables:** Select from the list of variables available under *Basic properties, File Properties and Custom Metadata* and click on **Insert** button.

Actions

Action Type:

Notify

URI

Variables

```
%e_FILE_WorkflowName%%e_FILE_FileName%
```

c. **REST:** Enter below details for *REST* Notify type:

Notify

REST

1 Headers

2 Method Type

3 Authentication Type

4 Username Password

Variables

```
{
  "Id" : "%e_File_AssetID%",
  "Name" : "%e_File_title%",
  "Description" : "%e_FILE_Description%"
}
```

- ✓ Enter the URL
- ✓ **Headers:** Enter *Header Text* and *Header Value*. Click on *Add New* button to create multiple headers.
- ✓ **Method Type:** Select *POST* method type which can be used to POST data to the URLs.
- ✓ **Authentication Type:** Select from “None” or “Basic” or “OAuth 2.0” type of authentication.

Authentication Type

Variables

- *None* will work as the default type of authentication.
- *Basic:* Select “Basic” if for security reasons basic authentication is required during login. For basic authentication type, *Username* and *Password* can be provided.

Authentication Type

Username

Password

- *OAuth 2.0:* OAuth 2 is an authorization framework that enables applications to obtain limited access to user accounts on an HTTP service. Enter grant type, access token URL, client id, client secret, username & password to get a token.

- Notify

REST

Headers

Method Type

Authentication Type

Grant Type

Access Token URL

Client ID

Client Secret

Username

Password

Variables

```
{
  "title": "live_test_10",
  "fileName": "test18r.mp4",
  "description": "",
  "author": "Admin",
  "assetType": "Video",
}
```

4. **Purge:** Using **Purge** Action type, you can perform purge action for assets. Click on *Add* button and select the location of assets for purge action in the workflow. You can either select any particular storage location or multiple locations. If *Fully purge* option is selected, all storage locations get selected, and the asset will be permanently deleted from all storage locations. On the other hand, if all storage locations are selected except *Fully purge*, all physical files related to the asset are deleted but still there remains a placeholder in the browser.

Actions

Action Type:

Purge

Fully Purge	<input checked="" type="checkbox"/>
Source Storage	<input checked="" type="checkbox"/>
eMAM Storage	<input checked="" type="checkbox"/>
Cloud Storage	<input checked="" type="checkbox"/>
Archive Storage	<input checked="" type="checkbox"/>
Proxy	<input checked="" type="checkbox"/>

Note: Assets will be deleted permanently from the selected locations.

5. **Manage Category:** Using *Manage Category* Action type, you can either add or move assets to any selected category.
- ✓ Select Action type as **Manage Category** from the drop-down list and click on *Add* button.
 - ✓ Select *Operation type* as **Add** and choose the category you wish to add to the Category drop-down list, OR,
 - ✓ Select *Operation Type* as **Move** and choose the Category from the dropdown list to execute the move action.

Actions

Action Type:

Manage Category

Operation Type:

To Category:

6. **Manage Project:** Similarly, you can also manage projects by selecting **Manage Project** as *Action type*.
- ✓ Select *Operation type* as **Add** and choose the Project you wish to add the assets to from the Project drop-down list.

Actions

Action Type:

Manage Project

Operation Type:

Project:

7. **AI Indexing:** AI technology can now be used to index insights from audio and video assets. AI indexing can be done through a workflow using AI Indexing Action type:

Actions

Action Type:

AI Indexing

AI Profiles:

Variables:

```
{
  "request": {
    "ProxyURL": "%e_FILE_CurrentProxyVirtualPath%",
    "AssetId": "%e_FILE_AssetId%",
    "AIProfileId": "%e_FILE_AIProfileId%"
  }
}
```

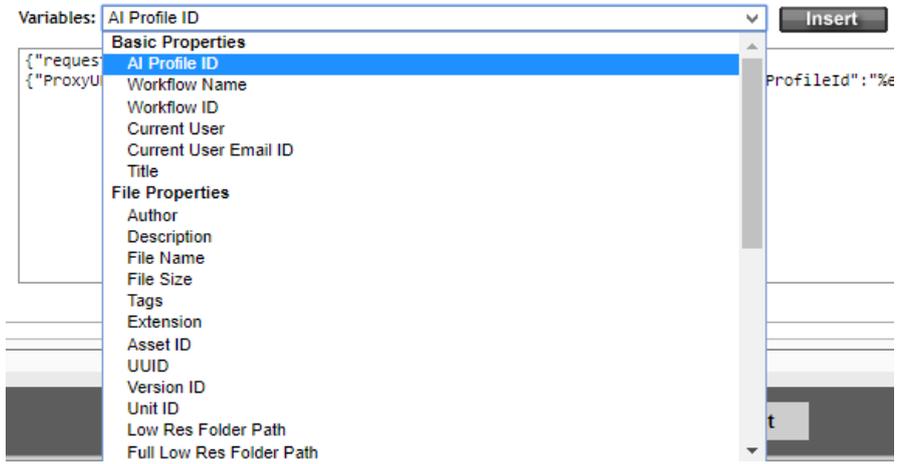
- ✓ Select AI profiles available under AI Profiles. *Note: Each AI vendor provide different services so based on your requirement, select from the **AI profiles** available*
 - **Insight only:** (Amazon Rekognition/HPE IDOL Media Server)
 - **Transcript only:** (VoiceBase/IBM Watson Speech To Text)
 - **Insight & Transcript:** Microsoft Video Indexer and IBM Watson Media Video Enrichment.

AI Profiles:

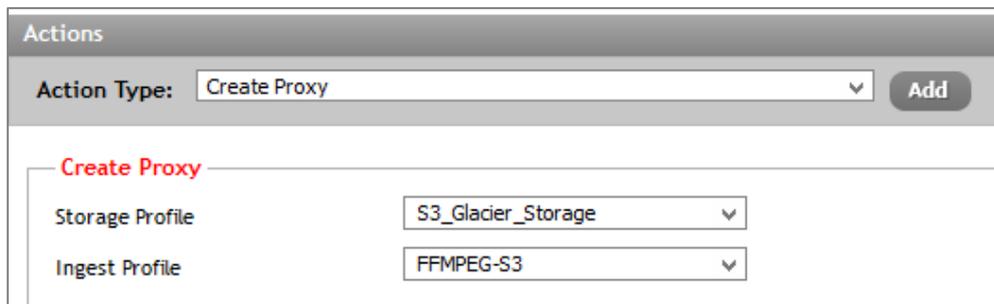
Variables:

- Amazon Rekognition
- IBM Watson Media
- IBM Watson Speech To Text
- Video Indexer
- Voice Base

- ✓ Select from the list of **Variables** (Basic Properties, File Properties and Custom Metadata) available and click on **Insert** button.

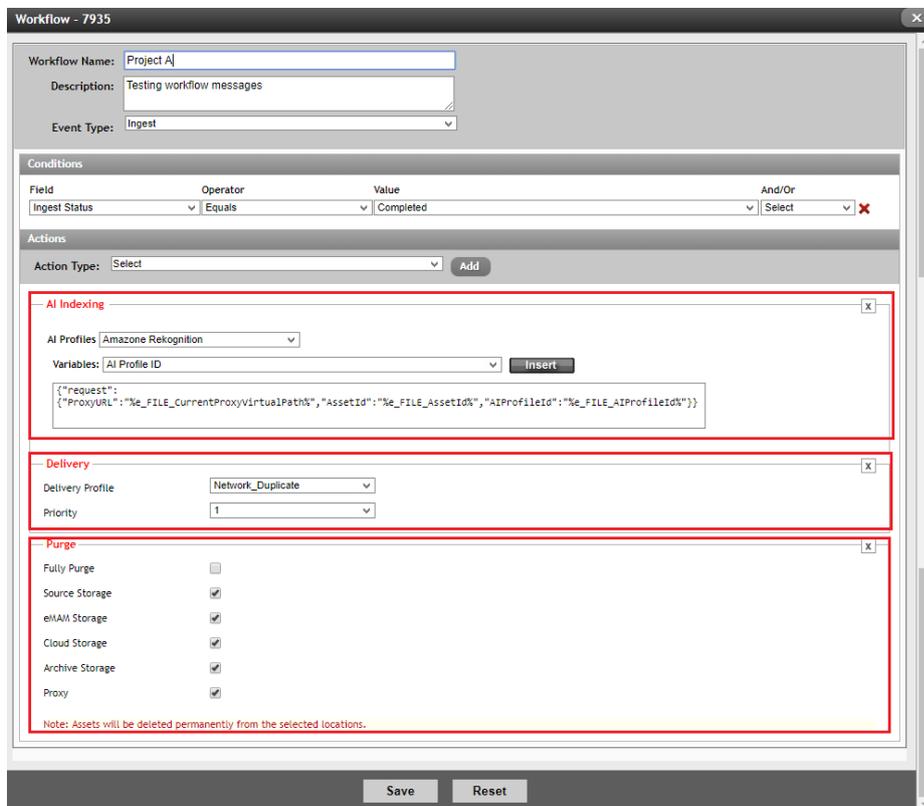


8. **Create Proxy:** Using *Create Proxy* as *Action type*, you can create proxies of assets with no proxies. Select the *Storage profile & ingest profile* for transcoding.



Click on the **Save** button to save the workflow or on the *Reset* button to reset the changes done.

You can also add multiple Actions types in a workflow. Click on  icon to remove any action type.



11.5 Sample Workflows

11.5.1 Button Metadata workflow

A button metadata when clicked triggers an associated active workflow. This helps to execute any workflow on a click of a button.

For e.g.: A button metadata **Action** is associated with **Tool A** workflow- For Image asset types, change **Producer** custom metadata field value from **Tom** to **Simon**.

3665	Production Button	CUST_FLD_PRODUCTION BUTTON_3665	Button	ACTION	
------	-------------------	------------------------------------	--------	--------	--

Action- Button metadata field type created in Admin Tools page

Workflow - Tool A

Workflow Name: Tool A
 Description:
 Event Type: Button Metadata Click

Conditions

Button Metadata: Production Button

Field	Operator	Value	And/Or
Asset Type	Equals	Image	And
Producer	Equals	Tom	Select

Actions

Action Type: Select Add

Change Metadata

Metadata Field: Producer
 Metadata Value: Simon
 Map another field value

Save Reset

Tool A workflow in eMAM Super Admin

- To change Custom Metadata Producer value from *Tom* to *Simon* for image asset types, click on **Action** button metadata.

Admin Tools: Reports

User History Report

Select User: athomas@empressmam.com Go User Name: Anoop Thomas (User 163) Email ID: athomas@empressmam.com

Export to Excel

Thumbnail	Asset Id	Title	Description	Action Performed	Date
	2261	20190502053452.mov	description	Ingest	May 2 2019 9:29PM
	2249	H_190404_m_offlat	OLA Transcript Test	Ingest	Apr 26 2019 7:14PM
	2248	H_190404	OLA Transcript Test	Ingest	Apr 26 2019 7:05PM
	2247	VSD_20190410_201903		Ingest	Apr 24 2019

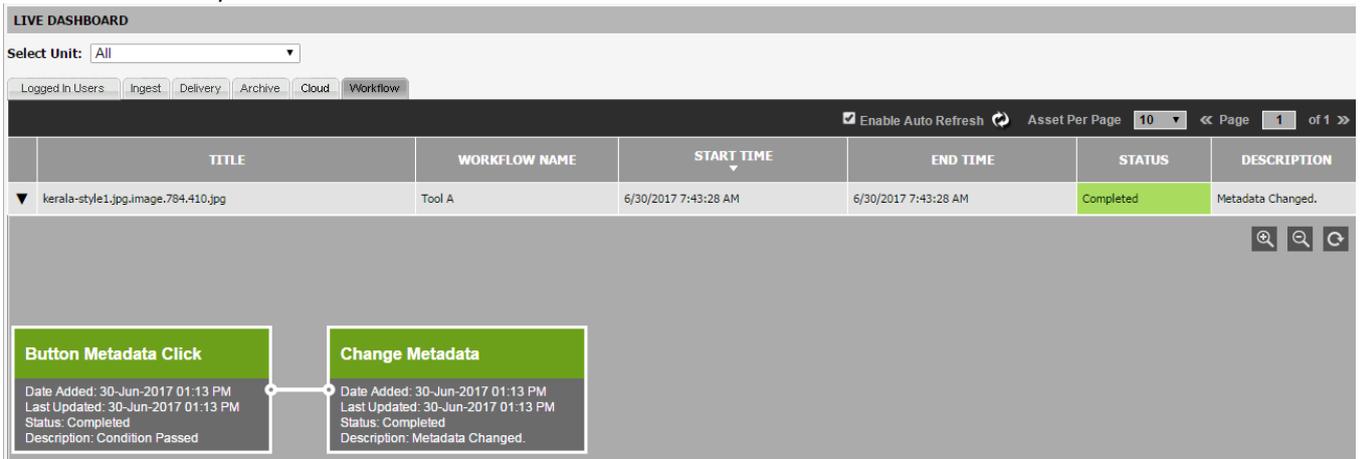
Production Custom metadata tab with Action button metadata

- A confirmation window pops up to confirm trigger of workflow. Click OK.



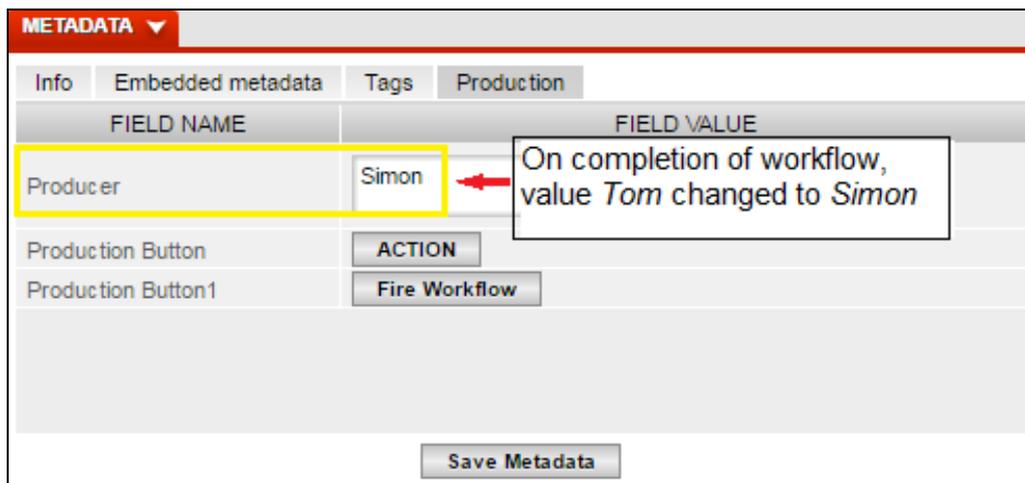
Confirmation message window to confirm workflow trigger

- c. Tool A workflow (associated with Action button metadata) gets triggered on click of Action button and can be monitored under Live Dashboard (Workflow) in eMAM Super Admin. Once the workflow is complete, status shows *Completed* as shown below.



Dashboard- Live Dashboard workflow

- d. Now go back to eMAM Director interface and check the details under Metadata widget. You will notice that the custom metadata Producer field value gets changed to *Simon* automatically for all image assets which had *Tom* as custom metadata Producer field value.



Metadata widget- Custom metadata value Tom changed to Simon

11.5.2 AI Indexing workflow

eMAM users can create workflows to extract insights from audio and video assets.

For e.g., 1.: Create a workflow to send all the video assets with completed status for AI Indexing to VoiceBase AI vendor.

The screenshot displays the 'Workflow - send to voicebase on ingest' configuration window. It includes the following sections:

- Workflow Name:** send to voicebase on ingest
- Description:** (empty text area)
- Event Type:** Ingest
- Conditions:**

Field	Operator	Value	And/Or
Ingest Status	Equals	Completed	And
Asset Type	Equals	Video	Select
- Actions:**
 - Action Type:** Select
 - AI Indexing:**
 - AI Profiles:** VoiceBase
 - Variables:** AI Profile ID
 - Request Body:**

```
{
  "request": {
    "ProxyURL": "%e_FILE_CurrentProxyVirtualPath%",
    "AssetId": "%e_FILE_AssetId%",
    "AIProfileId": "%e_FILE_AIProfileId%"
  }
}
```

Buttons for 'Save' and 'Reset' are located at the bottom of the window.

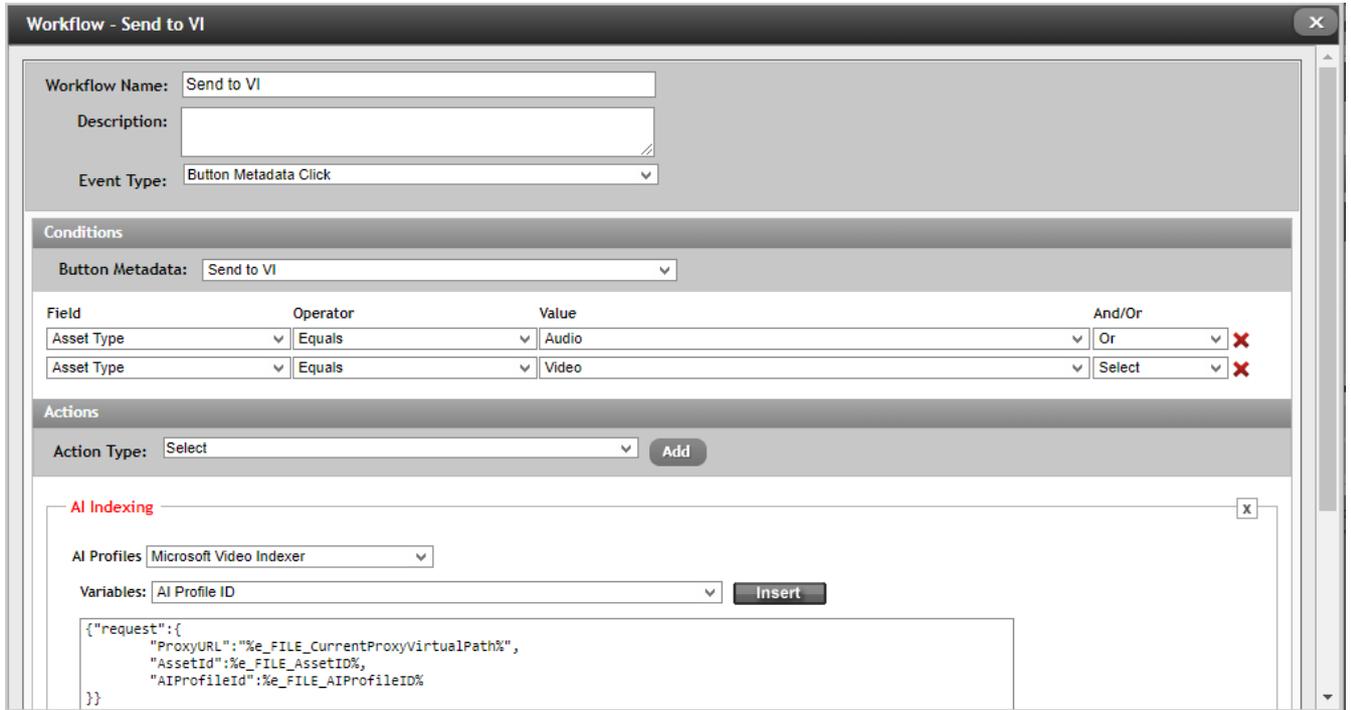
To create an AI workflow, follow below steps:

- Click on *New Workflow* button to create a new workflow. Enter *Workflow name*, *Description*. Select *Event Type* as *Ingest*.
- Under *Conditions*, set field with *Ingest Status* equals *Completed* and *Asset type* equal *videos*.
- Select *Action Type* as *AI Indexing*. Select the *AI profile* for AI indexing. Select *Variable* and click on *Insert* button. Click on *Save* button to save the workflow.

For e.g., 2.: Click on Button Metadata *Send to VI* should submit audio/ video assets for insights extraction.

You can also use *Button metadata* for AI Indexing using which on click of button metadata will send assets for AI indexing (extract insights from the assets).

Use *Event Type* as *Button Metadata Click* and *Action Type* as *AI Indexing*.



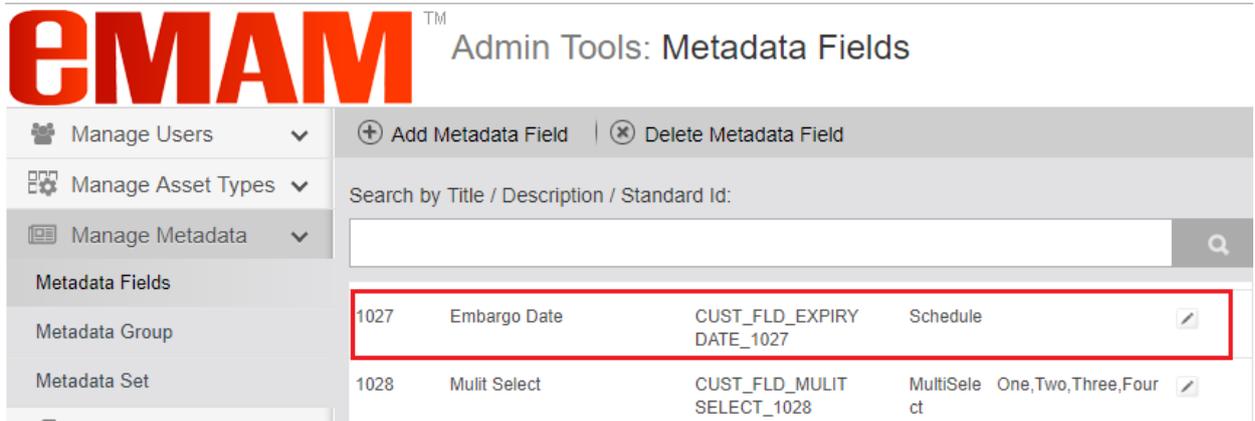
Similarly, you can create multiple custom workflows to extract insights from audio and video assets.

11.5.3 Scheduled Workflow

You can create workflows which can be triggered at a specific date and time.

- ✓ In the Admin Tools page, create a Schedule Metadata field and associate it with a Metadata Group and Metadata Set.

e.g.: Embargo Date>DIST Series>DHX



- ✓ In the Super Admin interface, create a workflow with Event Type as Scheduler.

E.g.: Image to be moved to XYZ category on 20th Feb 2019, 9:00 am.

Workflow - Expiry Management

Workflow Name: Expiry Management

Description:

Event Type: Scheduler

Conditions

Schedule Metadata: Embargo Date

Field	Operator	Value	And/Or
Asset Type	Equals	Image	Select

Actions

Action Type: Select

Manage Category

Operation Type: Move

To Category: XYZ

Save Reset

- ✓ In eMAM Director Interface, under Metadata widget go to the Metadata group tab. In the Schedule Metadata field, select a date from the calendar and enter a time. Click on Save Metadata,

METADATA SEARCH FILTER

Info	Embedded metadata	Tags	DIST Series	DIST Delivery	Ta
DIST-SEASON					
DIST-SEASON LANGUAGE					
DIST-SEASON TYPE					
DIST-SEASON FRAME RATE					
Embargo Date	20-Feb-2019	09:00			

Save Metadata

Automatically a workflow will be triggered on 9:00 am 20th Feb and this asset will be moved to XYZ category. Similarly, multiple workflows can be created for scheduled triggers,

11.5.3 Create Proxy Workflow

You can create workflows to create proxies of assets which do not have proxies generated during ingest. E.g., Instant asset. In the Super Admin interface, create a workflow to create proxy.

- ✓ A workflow is created to create proxies for assets ingested using *Instant asset* profile.- *Create proxies for instant assets on ingest complete.*

Workflow - Create proxy for Instant asset on ingest completed.

Workflow Name: Create proxy for Instant asset on ingest completed.

Description:

Event Type: Ingest

Field	Operator	Value	And/Or
Ingest Status	Equals	Completed	And
Ingest Profile	Equals	Instant Ingest	Select

Actions

Action Type: Select

Create Proxy

Storage Profile: Instant Asset Storage (No-Cloud)

Ingest Profile: Instant Transcoder Profile

Save Reset

- ✓ Ingest a new asset with *Instant ingest* as the ingest profile.

ASSET METADATA

Asset Details

Title: Christmas

Description:

Author: rincy@empressmam.com

Ingest Profile

Ingest Profile: Instant Ingest

S3 Transfer Acceleration: Disabled

MD5 Checksum

Enable MD5 Checksum:

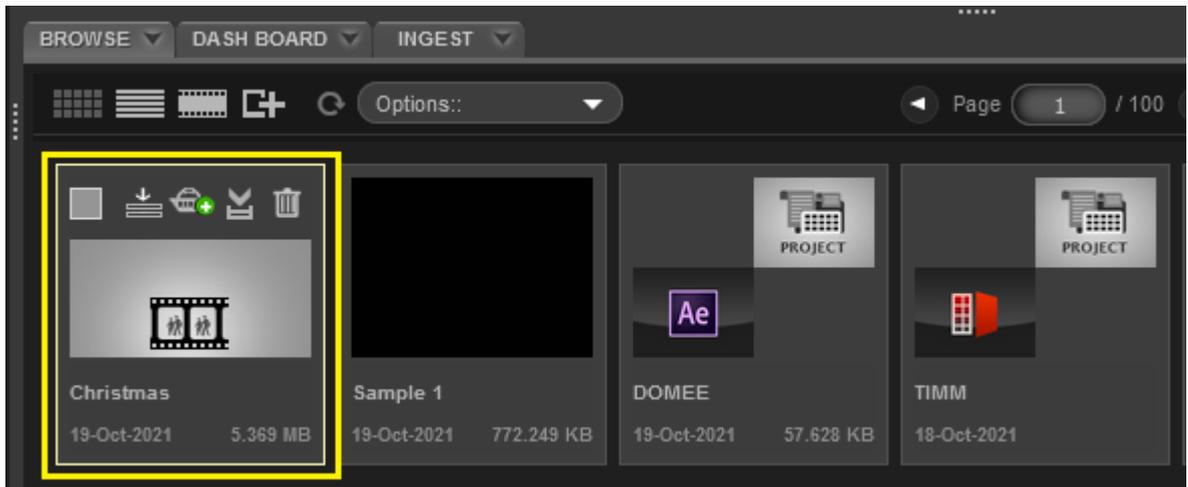
Projects

Categories

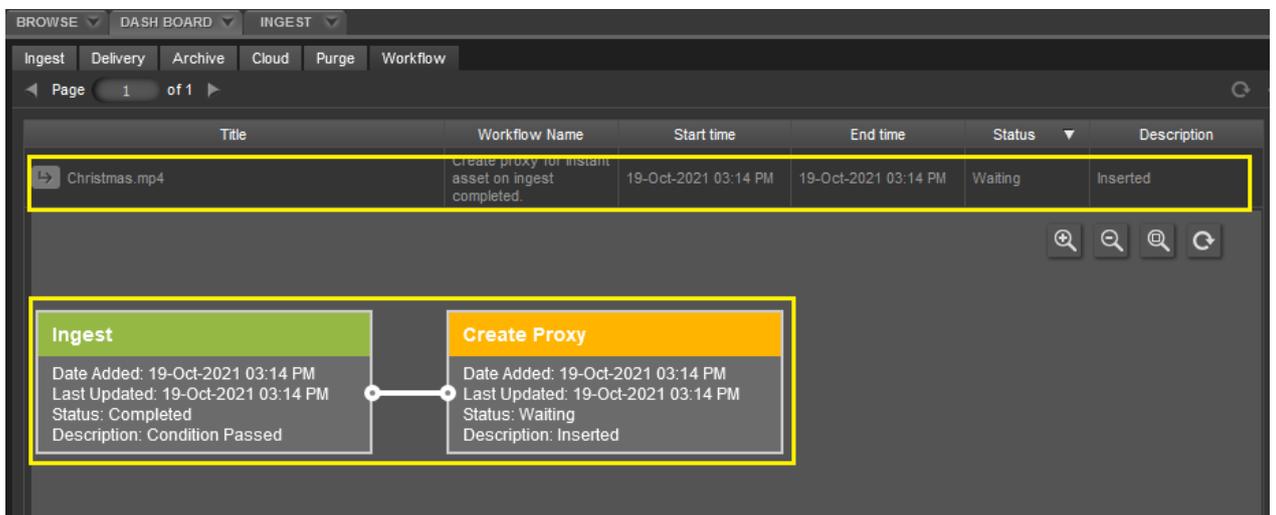
Tags

Custom Metadata

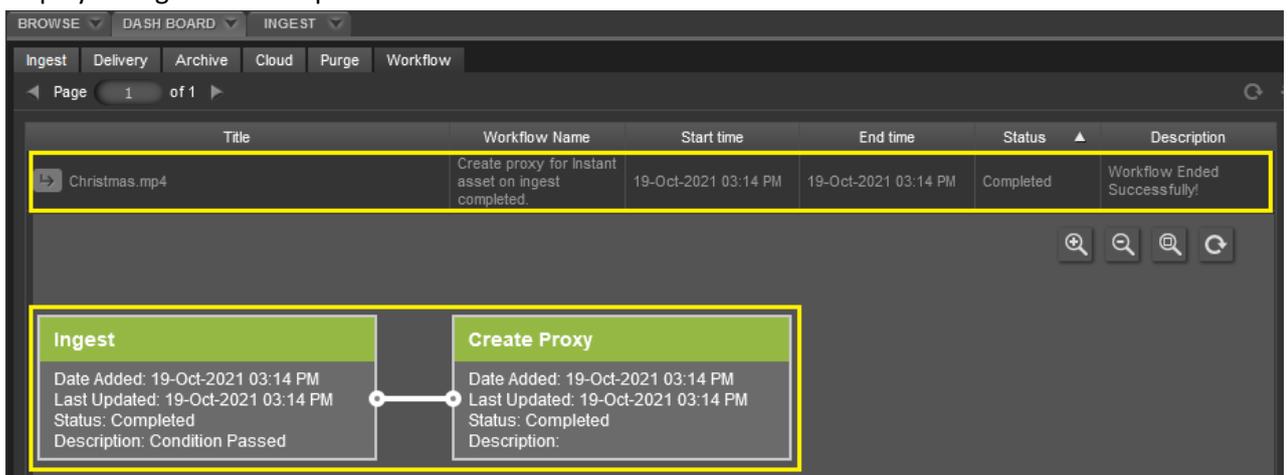
- ✓ The moment upload is complete, the asset is instantly available in the Browse widget without preview/proxy.



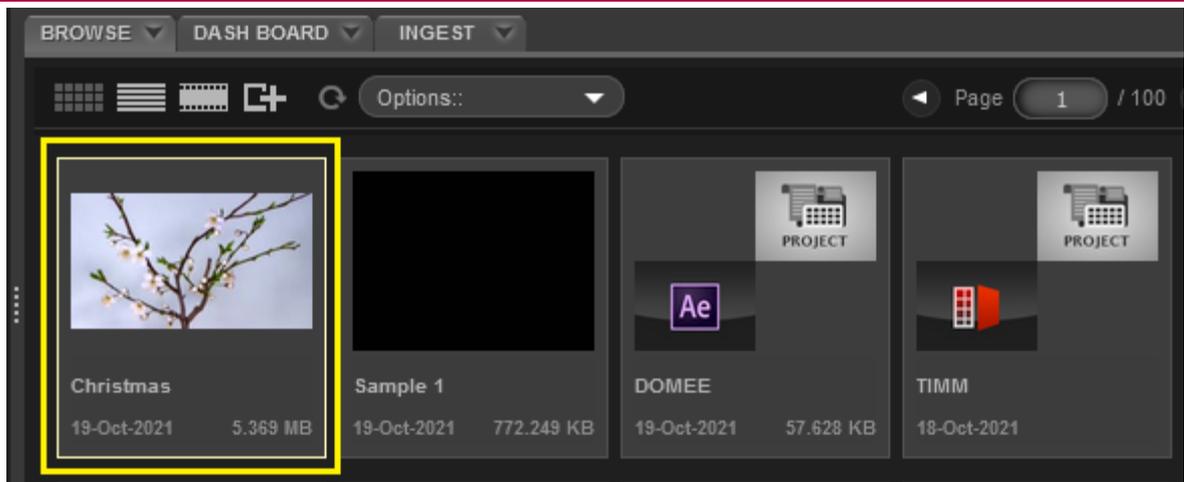
- ✓ After this ingest is complete, automatically create proxy workflow is triggered. You can see the workflow status in the Dashboard>Workflow tab.



- ✓ After the proxy generation and thumbnail extraction is complete, the create proxy workflow is displayed in green as completed.



- ✓ After the create proxy workflow is marked complete, asset is now displayed with a thumbnail in the Browse widget.



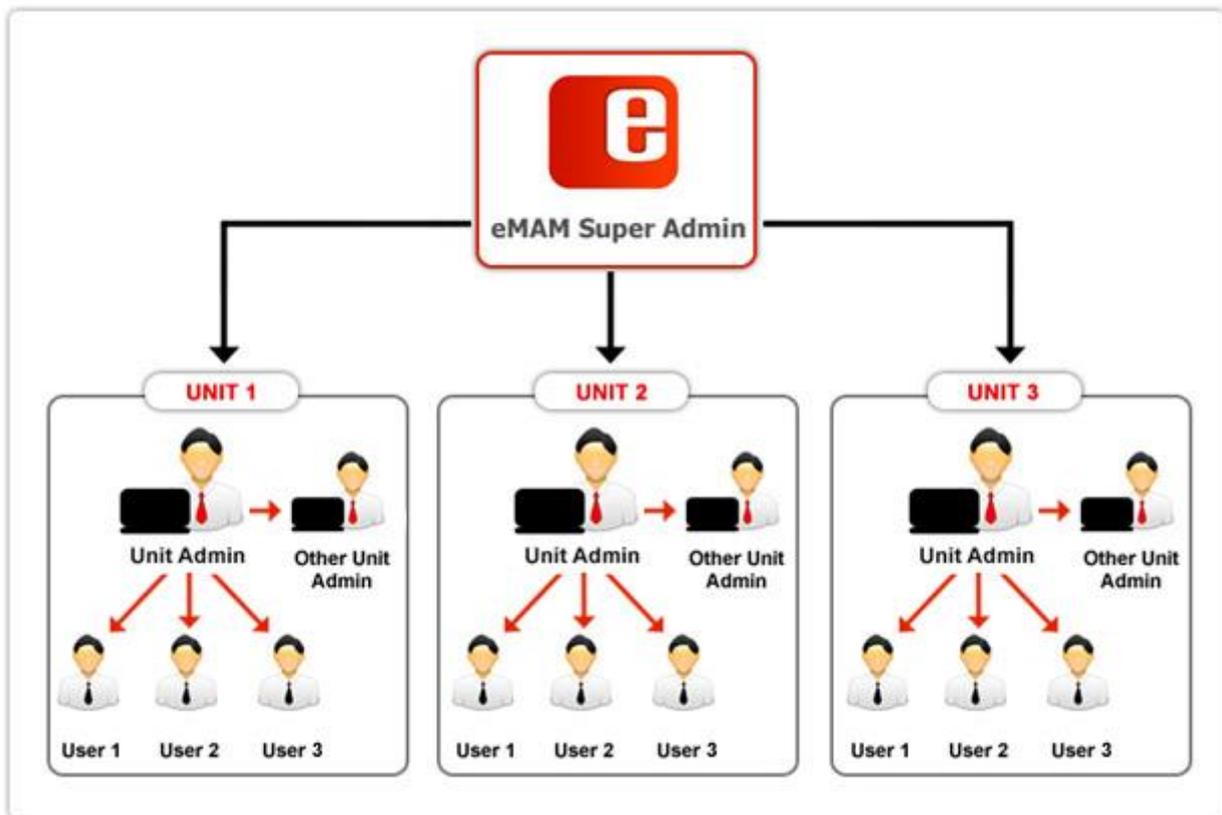
Get Help

For any more information, please contact eMAM support at support@emamonline.com

Appendices

Appendix 1 User Roles

eMAM Organizational & User Role Workflow



POC – Point of Contact for eMAM system

This is the business contact for an organization for any legal or accounting issues. They may or may not have other roles below. POC must maintain communication channels between the different internal staff and the eMAM teams to coordinate activities. They should play a similar role with system integrators, hardware, and software vendors.

Super Admin:

This person is a Hardware/Software systems administrator. This person must have a working knowledge of Windows Server, basic knowledge of Microsoft SQL server, storage and networking experience. This person must have administrator access and understanding of how to create and share volumes on the storage device used by the eMAM system. If eMAM is implemented in an Active Directory/LDAP environment, then this person will also need to have knowledge and permission to create LDAP/AD/SSO users. This person should be the primary IT administrator for the transcoder, archive software, and other systems that will be implemented with eMAM.

Unit Admin:

This person has a leadership role for one or more groups of business users. He/she should set up and manage the metadata structure, user accounts, and categories/projects, and assigns metadata groups and users to user groups. This person will decide what ingest and delivery profiles users and groups use. He/she must work closely with the Super Admin to effect changes in the system as needed. This person must work to train and support the users in their unit.

Users:

This person is the production operator of the system. This person will have only the rights and permissions and access to the select categories of assets given by the Unit Admin(s). This person may be an ingest operator using eFeeder, a person with view-only access to videos, an editor using NLE software such as Adobe Premiere, a librarian who is responsible for entering in metadata, or an Archive/Restore specialist. A **power user** is licensed for all the user roles in the systems. A **basic user** has access to only browse and share functions, with no access to ingest, archive, media management, or the tablet interfaces.

eMAM Database

This consists of all eMAM database tables, stored procedures, database functions and background jobs. You have the option to place eMAM database in multiple servers for redundancy and backup purposes.

eMAM Gateway

This is a software component running from a web server. eMAM Gateway is directly connected to eMAM Database. All the other eMAM components are communicating with eMAM Gateway to get/set the information in the database. Customers can have multiple eMAM Gateway software modules running from multiple servers for redundancy and backup purposes.

eMAM Analytics Gateway

This is a software component running from a web server. eMAM Gateway is directly connected to eMAM Database. eMAM components are interacting with Analytics Gateway to report the analytics information.

eMAM Director

This is a feature rich web-based management interface for eMAM, typically used by high level users and administrators. All the eMAM settings and configurations can be done through this interface. There can be multiple instances of eMAM Director software running from multiple web servers for scalability, redundancy and back up purposes.

eMAM Transcode Manager

This is a software component running as a background service from a Windows 2008 server. This service will communicate with eMAM Gateway to get the client settings and their watch folders. This component works with Harmonic Pro Media Carbon to create Proxies by transcoding the video and audio files coming into the system. This component generally has to be running from a separate server other than the eMAM Gateway, eMAM Director, eMAM Client, eMAM Database and eMAM Mobile for increased performance. Multiple eMAM transcode managers can be installed in multiple servers that can communicate with multiple Pro Media Carbons for load balancing and multithread transcoding and backup purposes.

eMAM Client

This interface is a simple to use web interface for eMAM end users who want to preview, share, and download content. This is a configurable interface that can be branded for different customers or users. eBIN feature of this interface provides users with a simple “shopping cart” method to gather content and send links with built in security features such as limiting content forwarding or limiting the number of views. eBIN can also be used as a marketing tool since there are built in HTML delivery templates. The interface is simple enough so that almost anyone can use it without training.

eMAM Delivery Service

This is a software component running as a background service from a Windows server. This service is integrated with Harmonic ProMedia Carbon to manage transcode and delivery to multiple locations in various file formats. eMAM Delivery service can be configured in multiple servers for load balancing and backup purpose.

eMAM Archive Manager

This module will archive the assets to any disk-based archive. This solution can also be used with technologies such as Xendata, Qstar, Crossroads StrongBox and 1 Beyond EZ Stor which show the entire LTO library as a large disk cache to eMAM. eMAM Archive Manager is seamlessly integrated with SGL Flashnet, ASG-Atempo and Archiware P5 Archive. eMAM Archive Manager is using S3 technology to integrate with Spectra Logic BlackPearl that shows the LTO library as an object storage.

eMAM S3 Connector

This is a multi-threaded windows service running in the background to upload the low-resolution files and original files to respective cloud storage buckets based on the configuration in eMAM Director. eMAM Interfaces (eMAM Director, eMAM Client and eMAM Mobile) will load the assets from the cloud or from the online storage, based on the existence of that asset in cloud storage or in the online storage.

eMAM Mobile

This is a browser interface for Android, Blackberry, iPhone and iPad. Preview, metadata (view), comment (view/insert) and description (view) is supported in this interface. This component can run from multiple servers for redundancy and backup purposes.

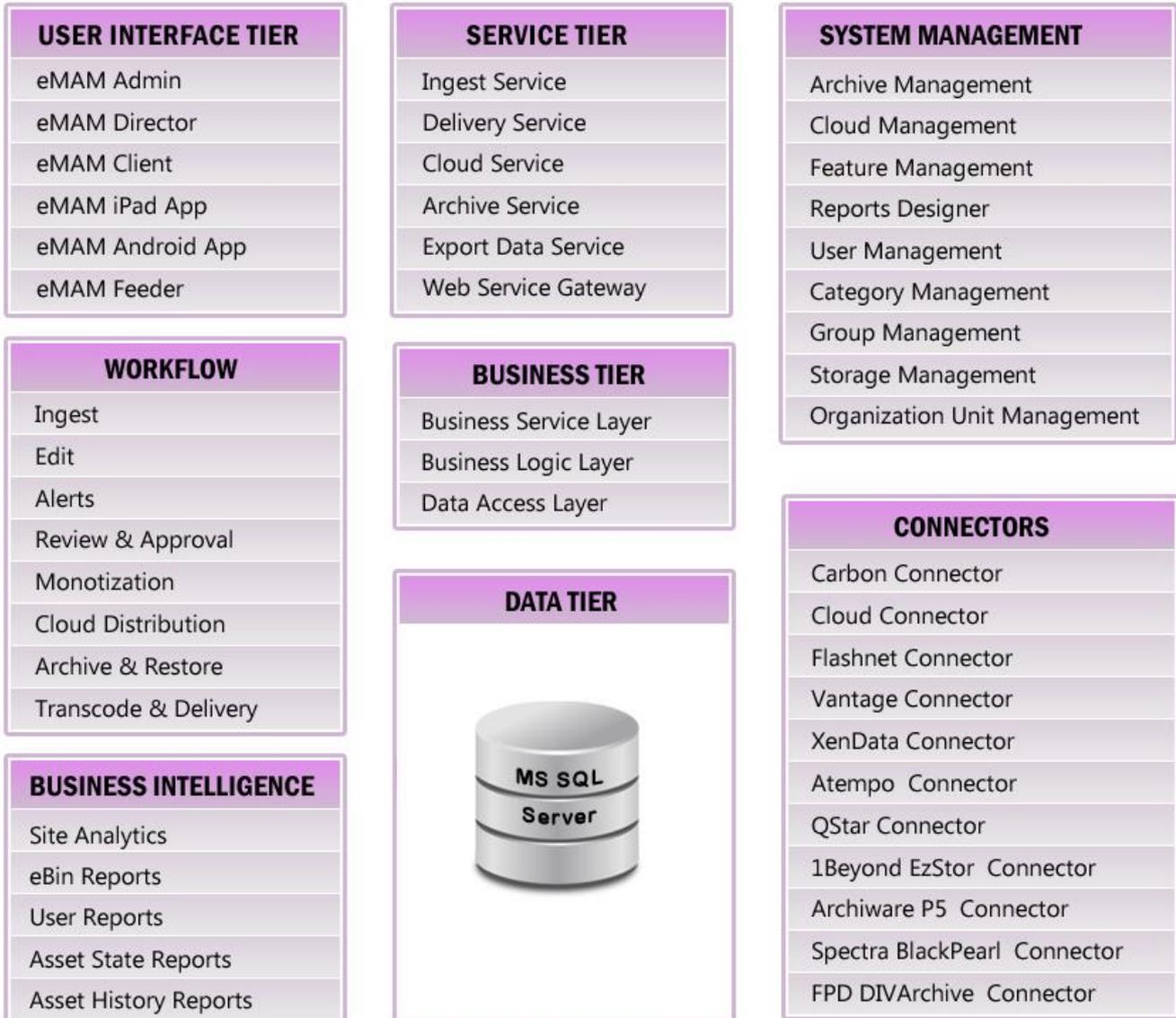
eMAM Feeder

This is a standalone desktop application that will allow input of content external to the eMAM system. eMAM feeder allows content to be put into selected projects or categories and tagged before it is ingested. If an organization wants external content loaded into eMAM from individuals who don't have eMAM access, then these individuals need only be given eMAM feeder.

eMAM Anywhere Manager

This is a multi-threaded windows service based on WCF SOE framework utilizing MSMQ technologies to make it failsafe. This application can be deployed in Anywhere collaboration engine server to manage the assets in Adobe Anywhere environment.

Appendix 2 System Architecture and Components



Glossary

This Glossary offers an alphabetical listing of terms and phrases used throughout this manual.

- **Asset**- General term to describe any type of digital media including audio and video files, documents, etc.
- **Annotation**- Annotation is inserting text and graphics data at a specific time in a video asset, or adding annotation objects such as texts, lines, rectangles, ellipses etc. to image assets.
- **Archiving**- Archiving is a process used for long-term preservation of assets. Archiving makes more efficient use of the storage devices to reduce storage costs while providing users with the necessary access.
- **Archive purge threshold**- The number of days after which the copy of the archived the archived assets get deleted from the nearline (online) storage if the assets exist in both nearline (online) and archived storage. *(default is 0 (unlimited))*
- **Approval**- Process of sending assets for approval to the internal or external users.
- **Bandwidth**- Peak capacity of the connection to transfer the files. Graphics consume higher bandwidth.
- **Custom metadata**- Metadata defined in the eMAM System. Custom metadata can be edited by the users.
- **Digital Asset Management**- The process of storing, cataloging, searching and delivering digital assets.
- **Embedded metadata**- Metadata that is maintained and stored within the asset. Embedded metadata may be data that describes the source, identification, rights information, technical details of the asset etc. This metadata travels with the content as a digital label and remains with it over its lifetime. Embedded metadata cannot be edited by the users.
- **EDL**- An EDL, Edit Decision List, is a text file in one of many different formats (CMX, GVG, Sony) that specifies (among other things) the time code in and out points of a subclip in a video file. User can import EDLs into FCP, Final cut Pro, for editing.
- **FTP- File Transfer Protocol**- A standard Internet protocol to exchange files between computers over the net.
- **High resolution folder (Online storage or near line storage)** - Network folder created to keep the original files in the same format in which users ingested them into the eMAM System.
- **Immediate Archive**- If 'Immediate Archive' option is enabled; the asset is moved to the archive storage immediately after it is ingested into the eMAM System.
- **Ingesting**- Term that covers the process of transcoding, transferring and adding descriptive information (metadata) to an asset till it appears in the eMAM System.
- **JPEG**- Joint Photographic Experts Group is a compression standard used to reduce the disk space consumed by the images.
- **Keywords**- Words or phrases attributed to assets as metadata. Keywords are particularly relevant for images and photographs as these types of assets lack any integral descriptive information to help users identify whether they are suitable for their needs.

- **Low Resolution folder-** Low resolution folder in the eMAM system is to keep low resolution files like flv, jpg etc. created by eMAM system to preview the asset in eMAM interfaces.
- **Metadata:** 'Data about Data'. It is descriptive information applied to the assets to support a task or activity. The most common example is to help users to locate assets in searches. Examples of metadata are description, title, tag, keywords etc.
- **NAS:** Network Attached Storage (NAS) Servers are dedicated to the storage of digital files. The purpose of having a computer whose sole purpose is file storage is to reduce the load on a web, application or database server. Unlike an external hard disk, a NAS is usually an actual computer with an operating system installed on it. Because NAS servers are specialized towards just providing storage alone, extra capacity can usually be added to them easily. NAS are commonly used for Digital Asset Management projects to provide sufficient storage capacity for repositories of larger files such as video, print/artwork files or original high-resolution images. SANs (Storage Area Network) are sometimes used as an alternative to a NAS, although this is less common with dedicated Digital Asset management software.
- **Online storage:** Network location where high and low-resolution folders exist.
- **Partial restore:** Retrieving a specific portion from a large, archived video file without restoring the entire archived file.
- **Proxy files:** Files that are created from the original for reference purposes. They are used to represent assets - in general as a low resolution, truncated or otherwise constrained edition.
- **Purging:** The process of moving the asset from eMAM interface to recycle bin. Purged assets can be restored eMAM interface.
- **Purge threshold:** Number of days after which the files in the recycle bin gets fully purged. A fully purged asset will not be present in any of the storage locations in eMAM.
- **Resolution-** Number of pixels per inch in a graphic file format.
- **RSS- Real Simple Syndication-** XML based Metadata standard that makes it easier for the websites to syndicate data from other web-based resources.
- **SAN:** Storage Area Network (SAN) is used to aggregate the storage capability available on different devices (e.g., servers) so they appear as a single disk. The key benefits of this approach are efficiency and availability. By combining storage, SANs can prevent uneven distribution of capacity and also offer greater reliability by replicating data across the network.
- **Streaming:** Ability of media to be viewed at the same time as it is being downloaded. The key benefit of streamed assets is that the users do not need to wait until the entire file has been obtained before they can inspect it.
- **Tags:** Words or phrases that are used to describe assets. Tags can be used to search asset.
- **Thumbnail-** Miniature display of an asset.
- **Toolbar-** Standard program tool that offers buttons as shortcuts to commonly used commands.

- **Transcoding:** Process of converting one video or audio format into another. In general, it refers to the conversion of one codec to another (e.g., MPEG to FLV), although the description can also apply to conversions between container formats (e.g., QuickTime to AVI).
- **Uploading:** Process of transferring the digital assets from user's computer to the Digital Asset Management System (DAM).
- **UUID:** A UUID (Universal Unique Identifier) is a 128-bit number used to uniquely identify assets in eMAM.
- **URI:** Uniform Resource Identifier (URI) is a string of characters used to identify a name or a resource on the Internet. A URI identifies a resource either by location, or a name, or both. A URI has two specializations known as URL and URN.
- **Versioning:** Versioning is creating new version of the asset that is improved, upgraded or customized.
- **Workflow-** The way files travel to, from and through the Digital Asset Management (DAM) system.
- **XML-** Metadata standard for describing assets such as documents and images.