



eMAM Sidecar Ingest

XML Specification

eMAM Version 5.2

Notice

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Revision History

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3.7	Rincy Abraham	15 th Mar 2016	Added revision history and additional details from Vipin's ppt
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Introduction

eMAM has defined an XML schema (*a description of the structure of xml*) for creating the ingest sidecar XML files. This is a reference document for creating the ingest sidecar XML files when using the eMAM sidecar ingest option. This enables you to ingest multiple videos and associated metadata by dropping the XML files into the configured ingest watch folder. eMAM will validate the XML file against the predefined rules defined in the XML Schema Definition (XSD) and if it fails, it will be shown as validation error in eMAM ingest dashboard.

Scope of the Document

The purpose of this document is to describe the XML specifications and code samples of the required elements and the attributes that you must include in the eMAM Sidecar ingest XML file.

Metadata Sidecar Ingest

Side car files are the files that come along with the source files and hold the metadata of the source files. Based on the eMAM defined Xml schema, Xml files which follow this schema are parsed by the eMAM Ingest Manager to extract the metadata given in that xml and perform actions based on that. The metadata xml can be ingested alone or with the source files. eMAM Ingest manager parses the xml, collects the information from xml and updates the database. This automates the process of metadata association with the asset in the eMAM system.

Steps for Ingest Automation with sidecar XML

To use the Ingest automation with sidecar xml feature, follow below steps:

1. Prepare your list of assets.
2. Create an XML file for assets that needs to be ingested to eMAM.
3. Drop the XML file to the configured ingest folder.
4. Wait for processing to complete.
5. If there is any validation error associated with the XML file, error message will be displayed in the eMAM dashboard.
6. Fix the error in XML file and resubmit the job from the dashboard.

Validate your XML

You can validate your XML file against the XSD and to ensure that it is free of invalid or illegal characters which need to be removed. If left unfixed, these characters could cause failures during the ingest process. Here is the list of illegal characters and its representation in XML:

- **&** should be represented as **&**;
- **<** and **>** should be represented as **<** and **>**;
- **'** and **"** should be represented as **'** and **"**;

A comma (,) cannot be included in a tag. The reason behind this is that tags are stored internally as comma separated lists, and unexpected commas cause issues.

Pre-requisites

Few pre-requisites for ingest automation with the Metadata Sidecar XML are:

- ✓ If a user needs to upload both source files and the metadata XML to ingest folders, an **ingest profile** should be created by the Super Admin with XCode Type as '**SidecarXMLIngest**'.
- ✓ There should be at least one **Unit Admin user** created in eMAM and associated with the Sidecar XML Ingest profile.
- ✓ A **Unit Admin user key**. User key can be obtained from the eMAM Admin interface or from the *eMAM Director interface>Admin Tools page>Manage Users> edit user>Manage User key* tab.

Sample XML

Below is a sample of a basic XML file. All the tag names and attributes used in the xml file are case sensitive and should be used as it is.

```
<?xml version="1.0" encoding="UTF-8"?>
<eMAM user-key="zLEKbVGXb0UWy0avK6yQwneL7cPxV6zy6V1/+ZTxuuA=">
  <asset file-name="Ads1.mov" ingest-action="create-new-version" file-action="copy-file"
file-path="//102.10.0.148\shared\delvry\Videos" asset-id="30494">
    <basic-metadata>
      <title>Ads1</title>
      <description>first ad-based video test description</description>
      <author>John Garyson</author>
    </basic-metadata>
    <custom-metadata>
      <field standard-id="CUST_FLD_APPROVED_TXT_595">Approved</field>
      <field standard-id="CUST_FLD_APPROVED_ON_TXT_595">02/12/2016</field>
    </custom-metadata>
    <markers>
      <marker name="my_marker1" time-code="00:05:44:10" duration="00:00:00:00">The
first filter for the video starts from here</marker>
      <marker name="my_marker2" time-code="00:09:44:14" duration="00:00:00:00">The
second filter for the video starts from here</marker>
    </markers>
    <subclips>
      <subclip type="std" name="sb_clp1" start-time="05:59:51:13" end-
time="07:00:36:00" />
      <subclip type="tx" name="sb_clp2" start-time="08:25:10:13" end-
time="14:00:36:00" />
    </subclips>
    <projects>
      <project name="Project5/New"/>
    </projects>
    <categories>
      <category name="Main/Approved_Items"/>
      <category name="Videos/Ads"/>
    </categories>
  </asset>
  <asset asset-id="30494" ingest-action="associate-metadata" file-name="NewVideo1.mp4"
version-id="35662">
    <associate file-type="original" file-action="copy" file-exist-action="replace" file-
name="A013C009_160219_R0S7.mov" file-path="D:\Project A\Bin" />
    <associate file-type="platform" file-action="copy" platform-id="1" file-
name="A013C009_160219_R0S7.mp4" file-path="D:\Project B\Clip" />
  </asset>
</eMAM>
```

XML Structure

Users need to follow the below mentioned XML structure specified by eMAM.

1. Identify the XML

Required- This first tag identifies the XML document type and always looks exactly like the following:

```
<?xml version="1.0" encoding="UTF-8"?>
```

2. Root Tag

eMAM: For user authentication, provide the user key from the manage users section in the Admin Tools page. This user should be associated with at least one ingest profile with 'SidecarXMLIngest' option enabled in order to use the sidecar XML ingest option. Otherwise, an error will show up in the dashboard "user xyz is not associated with the ingest profile"

Required- This automatic ingest-specific (eMAM user key) tag marks the beginning of the upload.

```
<eMAM user-key="z1EKbVGXb0UWy0avK6yQwneL7cPxV6zy6V1/+ZTxuuA=">
```

XML Element	Required	Element Value	Attributes	Required	Attribute Value	Description
<eMAM>	Yes	Nil	user-key	yes	non-empty key	User key can be obtained from eMAM Director>Admin Tools>Manage Users>edit user> Manager User Key tab or Contact eMAM Unit Administrator to get the user key.

3. eMAM asset

For all the assets which needs to be uploaded, please specify following attributes for each asset in the Xml file.

```
<asset file-name="Ads1.mov" ingest-action="create-new-version" file-action="copy-file" file-path="\\102.10.0.148\sharedelvry\Videos" asset-id="30494">
```

Asset attributes: <asset> tag uses following attributes:

XML Element	Required	Element value	Attributes	Required	Attribute Value	Description
<asset>	Yes	Nil	File name	Yes	non-empty key	Provide name of the file
		Nil	*ingest-action	Yes	create-new-asset/ associate-metadata/ create-new-version/ create-asset-placeholder	Provide the details of what action ingest manager needs to take
		Nil	*file-action	*Yes (Not required with associate-metadata and create-asset-placeholder)	copy-file/move/index	Provide the details of what action needs to be taken on the file
		Nil	file-path	*Yes (Not required with associate-metadata and create-asset-placeholder)	non-empty string	Provide network shared path of the asset.
		Nil	asset-id	*Yes (Not required with create-new-asset and create-asset-placeholder)	integer	Provide id of the asset from File version widget

3.1 **File name:** Name of the source file.

3.2 **File path:** Source location of the asset. (File path can also be an Http URL.

e.g.: `file-path="http://10.0.20.15/Highres"`. Http URL as file path can be used with Create new asset, create new version and associate files)

3.3 **Asset id:** Id of an asset from eMAM. Asset Id can be obtained from the version widget, API, asset state report or from the SQL report. *Note: If asset id is equal to 0, it will create a placeholder for a new asset.*

3.4 **Ingest actions:** Various actions that can be performed during Ingest are mentioned below:

*Ingest actions	Mandatory	Description
create-new-asset	File action, file name and file path	It creates a new asset. File-action (copy-file, index or move), file name and file path details are mandatory.
associate-metadata	File name and eMAM-asset-id	Associates metadata to an existing asset. File name and eMAM asset id details are mandatory.
create-new-version	File name, Asset file path & eMAM asset id	Adds a new version to the existing asset. File name, asset file path and eMAM asset id details are mandatory.
create-asset-placeholder	File name	Creates a virtual asset in the eMAM system but with limited operations. It can be associated with metadata, assigned to Projects/Categories without any physical media. File name detail is mandatory.

3.5 **File Action:** Various actions that can be performed for an asset during ingest.

*File action	Description
copy-file	This will copy the asset to eMAM managed storage and index the source storage location
index	Index option will index the source file storage location in eMAM. Certain functionalities like download will not be supported from eMAM interface with this option.
Move	Move file option will move the file from the source storage location to eMAM managed storage after processing.

4. Tags:

Various tags that can be associated with assets are:

4.1 Basic Metadata:

Basic metadata details of an asset can be updated by providing title, description and author details.

```
<basic-metadata>
  <title>Ads1</title>
  <description>first ad-based video test description</description>
  <author>John Garyson</author>
</basic-metadata>
```

Attribute	Description
Title	Title of the asset
description	Description of the asset
author	Name of the person who created the asset

4.2 Custom Metadata

After you have created the custom metadata fields and assigned them to *Metadata groups* and *Metadata Sets* in the eMAM Director Admin Tools page, you can use the metadata **standard id** (associated with the metadata fields) and **standard set id** (associated with the metadata sets) in the XML to set the custom metadata values for an asset. Both these values can be obtained from the *Manage Metadata* section in the eMAM Director Admin Tools page. The field values should be validated before submitting the XML.

Metadata field **Standard-id** for custom metadata fields are mandatory attributes for each field tag however Metadata **Set-standard-id** is optional.

Note: If **Set-standard-id** is not provided, you will not be able to see the associated metadata in the Director Interface, unless it is already associated.

Custom metadata details of an asset can be updated with a value that matches the field-type (*integer, string, list-item, float, date-time or time-code*) provided the unique **standard-id** for that field exists in the eMAM system otherwise ingest will fail. Therefore, please ensure that the metadata **standard id** and **set standard id** exists in the eMAM system before you start with the ingest. If the **standard id** or **set standard id** do not exist in eMAM, eMAM ingest manager will ignore those metadata fields. During ingest of a new version of an asset, existing metadata values will be overwritten with the values from the XML.

```
<custom-metadata set-standard-id="CUST_SET_7576">
  <field standard-id="CUST_FLD_APPROVED_TXT_595">Approved</field>
  <field standard-id="CUST_FLD_APPROVED_ON_TXT_595">02/12/2016</field>
</custom-metadata>
```

XML Element/Attribute	Required	Attributes	Required	Attribute Value
<field>	Optional	*standard-id	Yes	non-empty string
<custom metadata>	Optional	*set-standard-id	Optional	non-empty string

Note: **standard-id*: Unique id for each metadata field which can be obtained from eMAM Admin interface>Tools>Administrator tools>Metadata Fields OR, eMAM Director Interface>Admin Tools>Manage Metadata>Metadata Fields>Standard Id.

eMAM Director Interface>Admin Tools>Manage Metadata>Metadata Fields

***set standard-id**: Unique id for each metadata set which can be obtained from eMAM Admin interface>Tools>Administrator tools> Metadata Set OR, eMAM Director interface>Admin Tools>Manage Metadata>Metadata Set>Standard Id

eMAM Director Interface>Admin Tools>Manage Metadata>Metadata Set

***Element value**: Metadata value should be entered between the field opening and closing XML tags.

4.3 Markers

Markers of a video asset can be updated using the XML with name, time-code, duration and description details.

```
<markers>
  <marker name="my_marker1" time-code="00:05:44:10"
duration="00:00:00:00">The first filter for the video starts from here</marker>
  <marker name="my_marker2" time-code="00:09:44:14"
duration="00:00:00:00">The second filter for the video starts from here</marker>
</markers>
```

XML Element	Required	Attributes	Required	Attribute Value
<marker>	Optional	name	Yes	non-empty string
		duration	Yes	time-code string
		time-code	Yes	time-code string

Note: *Marker description* should be placed between the tags <marker> **value** </marker>

4.4 Subclips

Sub clips information of a video asset can be updated with subclip name, subclip type (*Std* or *Tx*), start-time and end-time details.

```
<subclips>
  <subclip type="std" name="sb_clp1" start-time="05:59:51:13" end-
time="07:00:36:00" />
  <subclip type="tx" name="sb_clp2" start-time="08:25:10:13" end-
time="14:00:36:00" />
</subclips>
```

XML Element	Required	Attributes	Required	Attribute Value
<subclips>	Optional	name	Yes	non-empty string
		end-time	Yes	time-code string
		time-code	Yes	time-code string
		type	Yes	Std or Tx

4.5 Projects

Assets can be associated with one or more Projects. Bins inside the project can be defined inside the XML with forward slash (/) after the project name. Ingested assets will be automatically assigned to the specified project or bin. Project structure will be created automatically if it does not exist in eMAM system.

```
<projects>
  <project name="Project5/New"/>
</projects>
```

XML Element	Required	Attributes	Required	Attribute Value
<project>	Optional	name	Yes	non-empty string

4.6 Categories

Assets can be associated with one or more Categories. Subcategories can be defined inside the XML with a forward-slash (/) after the category name. Ingested assets will be automatically assigned to the specified categories. Category structure will be created automatically if it does not exist in the eMAM system.

```
<categories>
  <category name="Main/Approved_Items"/>
  <category name="Videos/Ads"/>
</categories>
```

XML Element	Required	Attributes	Required	Attribute Value
<category>	Optional	name	Yes	non-empty string

4.7 Associate File

Assets can be associated with the Original, Proxy and Mezzanine files. You can also attach key frames as thumbnails for videos. *Note: It can be attached from http URL too.*

```
<asset asset-id="30494" ingest-action="associate-metadata" file-
name="NewVideo1.mp4" version-id="35662">
  <associate file-type="original" file-action="copy" file-exist-
action="replace" file-name="A013C009_160219_R0S7.mov" file-path="D:\Project A\Bin" />
  <associate file-type="platform" file-action="copy" platform-id="1" file-
name="A013C009_160219_R0S7.mp4" file-path="D:\Project B\Clip" />
  <associate file-type="thumbnail" file-action="move" file-
name="hd_wallpapers_forbackground_2015.jpg" file-path="G:\Test Assets\Images" />
```

XML Element	Required	Attribute	Description
<associate>	Optional	file name	Asset name "NewVideo1.mp4" file-name="NewVideo1.mp4"
		Ingest action associate-metadata	Metadata's will be associated for an already existing asset "NewVideo1.mp4" with id 30494 in the eMAM system. ingest-action="associate-metadata"
		Asset id	Asset Id can be obtained from File version widget in eMAM Director interface. asset-id="30494" Note: If <i>asset id</i> is equal to 0, it will automatically create a new placeholder for an asset and <i>then original/proxy files and metadata can be associated to that asset.</i> <asset asset-id="0" ingest-action="associate-metadata" >
		Version id	Version id is optional. If version id is provided, file gets associated with this version of the asset. If <i>version id</i> is not there, file gets associated with the face version of the asset. <i>It is advisable to use Version id only if we have valid version id of assets. Avoid using version id if you do not have the values as values like 0 or -1 can lead to validation issues.</i> version-id="35662">
			Copy: Copy the asset to the eMAM Managed Storage. file-action="copy"

<associate>	Optional	file action	Move: Move the file from the source storage location to eMAM managed storage after processing. <code>file-action="move"</code>
			Index: Index and associate original files from source. Source files (local path/UNC path/Network) should be accessible by the Ingest manager. <i>Note: While associating files, index option is only available for original file association.</i> <code>file-type="original" file-action="index"</code>
		file type	Original: Associate file to original file <code>file-name="A013C009_160219_R0S7.mov"</code> <code>file-type="original"</code>
			Platform: Associate file to a platform file which includes all the proxies, including eMAM preview proxy and other mezzanine files. <code>file-name="A013C009_160219_R0S7.mp4"</code> <code>file-type="platform"</code>
			Key frames: Associate key frames as thumbnails (<i>only for video files</i>). It can be attached from http URL too. File type should be <i>thumbnail</i> . <code>file-type="thumbnail" file-name="hd_wallpapers_forbackground_2015.jpg"</code> <code>file-path="G:\Test Assets\Images"</code>
		Platform-id	If platform id is 1, it will associate to eMAM preview proxy else it will associate to corresponding mezzanine formats. (<i>For file type- Platform, platform id is must</i>). <code>platform-id="1"</code>
		file-exist-action	While associating original files, <i>file-exist-action</i> attribute can be used to perform specific actions (<i>based on the value specified below</i>) on the associated new file:
			<ul style="list-style-type: none"> create-new-asset: If the original file already exists for the given asset Id, this new file will be ingested as a new asset. <code>file-exist-action="create-new-asset"</code>

<associate>	Optional	file-exist-action	<ul style="list-style-type: none"> ○ create-new-version: The new file will be ingested and associated as a new version for the given asset id. <p>file-exist-action="create-new-version"</p>
			<ul style="list-style-type: none"> ○ replace: The new file will replace the already existing original file and metadata of the given asset id with the new file and its metadata. <p>file-exist-action="replace"</p>
			<ul style="list-style-type: none"> ○ none: Here no action will be taken and will skip the given asset id if the original file already exists for the same. <p>file-exist-action="none"</p>
		file name	Asset name "NewVideo1.mp4" file-name="NewVideo1.mp4"
		file path	Path of the asset. file-path="D:\Project A\Bin"

Ingest action and Attribute Combinations

Various ingest actions and its combinations with different attributes are mentioned in the below figure:

Ingest Action	Other Attributes			
	file-path	file-name	file-action	asset-id
create-new-asset	✓	✓	✓	✗
create-new-version	✓	✓	✓	✓
associate-metadata	✗	✗	✗	✓
create-placeholder	✗	✓	✗	✗

Sample XML file

Assets ingested using XML file with various ingest actions: Using one Xml file, you can automatically ingest any no. of assets to eMAM. Details of each asset can be included like basic metadata, custom metadata, associate files, markers, subclips, projects, categories that needs to be associated with the asset. eMAM Ingest manager will process each asset based in the “ingest action” and “file action” specified in the XML. Below is a sample XML file used for automated ingest of 4 assets with different ingest actions.

```
<?xml version="1.0" encoding="UTF-8"?>
<eMAM user-key="zLEKbVGXb0UWyOavK6yQwneL7cPxV6zv6V1/+ZTxuuA=">
  <asset file-name="Heartbeat.avi" ingest-action="create-new-asset" file-action="copy-
file" file-path="//10.0.8.40/emamfolders\xmlingest">
    <basic-metadata>
      <title>Heartbeat</title>
      <description>Euphoria is the ninth studio album by Spanish singer-
songwriter Enrique Iglesias. </description>
      <author>John Garyson</author>
    </basic-metadata>
    <markers>
      <marker name="marker1" time-code="00:00:01:10" duration="00:00:00:00">The
best part of the album</marker>
    </markers>
    <subclips>
      <subclip type="std" name="subclip1" start-time="00:00:01:43" end-
time="00:00:03:43"/>
      <subclip type="tx" name="subclip2" start-time="00:00:03:53" end-
time="00:00:06:43"/>
    </subclips>
    <projects>
      <project name="NewProjects/Albums"/>
      <project name="LatestCollections/Videos"/>
    </projects>
  </asset>
</eMAM>
```

```

    </projects>
    <categories>
      <category name="Albums/Enrique/Euphoria"/>
    </categories>
  </asset>
  <asset asset-id="30544" file-path="//10.0.8.40\emamfolders\xmlingest" file-
action="move" ingest-action="create-new-version" file-name="Ayer1.avi">
    <basic-metadata>
      <title>Ayer</title>
      <description>'Ayer' by Enrique Iglesias.</description>
      <author>Johan</author>
    </basic-metadata>
    <custom-metadata>
      <field standard-id="CUST_FLD_TXT_DATETIME_598">02/23/2015</field>
      <field standard-id="CUST_FLD_TST_INT_596">15</field>
      <field standard-id="CUST_FLD_TXT_TIMECODE_599">00:02:05:29</field>
    </custom-metadata>
    <markers>
      <marker name="marker1" time-code="00:00:01:10" duration="00:00:00:00">The
first part of the album from here</marker>
      <marker name="marker1" time-code="00:00:01:10" duration="00:00:00:00">The
second part of the album from here</marker>
    </markers>
  </projects>
    <project name="NewProjects/Album1"/>
  </projects>
</asset>
<asset asset-id="30494" ingest-action="associate-metadata" file-name="NewVideo1.mp4">
  <basic-metadata>
    <title>NewVideo1.mp4</title>
    <description>The All new video from the Collection</description>
    <author>John Garyson</author>
  </basic-metadata>
  <custom-metadata>
    <field standard-id="CUST_FLD_TST_LIST_595">VideoCategory1</field>
    <field standard-id="CUST_FLD_TXT_DATETIME_598">02/03/2016</field>
    <field standard-id="CUST_FLD_TXT_TIMECODE_599">00:00:25:50</field>
    <field standard-id="CUST_FLD_TXT_FLOAT_597">29.97</field>
  </custom-metadata>
  <categories>
    <category name="Albums/Enrique/Ayer"/>
  </categories>
</asset>
<asset ingest-action="create-asset-placeholder" file-name="NextAlbum.avi">
  <basic-metadata>
    <title>NextAlbum</title>
    <description>Place holder for Next album video </description>
    <author>Justin</author>
  </basic-metadata>
</asset>
</eMAM>

```

a. create-new-asset:

Asset 1.

```
<?xml version="1.0" encoding="UTF-8"?>
<eMAM user-key="zLEKbVGXb0UWy0avK6yOwnel7cPxV6zy6V1/+ZTxuuA="
<asset file-name="Heartbeat.avi" ingest-action="create-new-asset" file-action="copy-file"
file-path="\\10.0.8.40\emamfolders\xmlingest">
  <basic-metadata>
    <title>Heartbeat</title>
    <description>Euphoria is the ninth studio album by Spanish singer-
songwriter Enrique Iglesias. The album is a joint-release by Universal Republic and
Universal Music Latino and was released on 5 July 2010 internationally and in the US on 6
July 2010</description>
    <author>John Garyson</author>
  </basic-metadata>
  <markers>
    <marker name="marker1" time-code="00:00:01:10" duration="00:00:00:00">The
best part of the album</marker>
  </markers>
  <subclips>
    <subclip type="std" name="subclip1" start-time="00:00:01:43" end-
time="00:00:03:43"/>
    <subclip type="tx" name="subclip2" start-time="00:00:03:53" end-
time="00:00:06:43"/>
  </subclips>
  <projects>
    <project name="NewProjects/Albums"/>
    <project name="LatestCollections/Videos"/>
  </projects>
  <categories>
    <category name="Albums/Enrique/Euphoria"/>
  </categories>
</asset>
</eMAM>
```

Asset 1 Details	Description
File name	Asset name "Heartbeat.avi"
Ingest action create-new-asset	A new asset with title "Heartbeat" will be created in the eMAM system.
File path	Network shared path of the asset "Heartbeat.avi" \\10.0.8.40\emamfolders\xmlingest
File action copy-file	A copy of "Heartbeat.avi" will be copied from \\10.0.8.40\emamfolders\xmlingest folder to eMAM managed storage. Also, source path will be indexed in eMAM.

Basic metadata	<p>Basic details like:</p> <pre><title>Heartbeat</title> <description>Euphoria is the ninth studio album by Spanish singer-songwriter Enrique Iglesias. The album is a joint-release by Universal Republic and Universal Music Latino and was released on 5 July 2010 internationally and in the US on 6 July 2010</description> <author>John Garyson</author></pre> <p>will be associated as basic metadata of the asset “Heartbeat.avi”.</p>
Markers	<p>Markers details like:</p> <pre>“name=“marker1” time-code=“00:00:01:10” duration=“00:00:00:00”>The best part of the album</marker”</pre> <p>will be associated with asset “Heartbeat.avi”.</p>
Subclips	<p>Below subclips details:</p> <pre>name “subclip1”, type “std”, start time “00:00:01:43” and end time “00:00:03:43” name “subclip2”, type “tx”, start time “00:00:03:53” and end time “00:00:06:43”</pre> <p>will be associated with asset “Heartbeat.avi”.</p>
Projects	<p>Asset “Heartbeat.avi” will be assigned to bin “Albums” under project “NewProjects” and to bin “Videos” under project “LatestCollections”</p> <pre>name=“NewProjects/Albums” name=“LatestCollections/Videos”</pre>
Categories	<p>Asset “Heartbeat.avi” will be assigned to subcategory “Albums/Enrique/Euphoria”</p>

b. create-new-version

Asset 2.

```
<?xml version="1.0" encoding="UTF-8"?>
<eMAM user-key="zLEkbVGXb0UWy0avK6yQwnel7cPxV6zy6V1/+ZTxuuA=">
<asset asset-id="30544" file-path="//10.0.8.40\emamfolders\xmlingest" file-action="move"
ingest-action="create-new-version" file-name="Ayer1.avi">
  <basic-metadata>
    <title>Ayer</title>
    <description>'Ayer' by Enrique Iglesias.</description>
    <author>Johan</author>
  </basic-metadata>
  <custom-metadata>
    <field standard-id="CUST_FLD_TXT_DATETIME_598">02/23/2015</field>
    <field standard-id="CUST_FLD_TST_INT_596">15</field>
    <field standard-id="CUST_FLD_TXT_TIMECODE_599">00:02:05:29</field>
  </custom-metadata>
  <markers>
    <marker name="marker1" time-code="00:00:01:10" duration="00:00:00:00">The
first part of the album from here</marker>
    <marker name="marker1" time-code="00:00:01:10" duration="00:00:00:00">The
second part of the album from here</marker>
    <marker name="marker1" time-code="00:00:01:10" duration="00:00:00:00">The
third part of the album from here</marker>
  </markers>
  <projects>
    <project name="NewProjects/Album1"/>
  </projects>
</asset>
</eMAM>
```

Asset 2 Details	Description
File name	Asset name "Ayer1.avi"
Ingest action create-new-version	A new version of the existing asset "30544" will be created in the eMAM system.
File action Move	Asset "Ayer1.avi" will be moved from the source location to the eMAM managed storage.
Asset id 30544	Id of the asset from the <i>File Version</i> widget in eMAM Director interface. "30544"
File path	Network shared path of the asset "Ayer1.avi" \\10.0.8.40\emamfolders\xmlingest

Basic metadata	<p>Basic details like:</p> <pre><title>Ayer</title> <description>'Ayer' by Enrique Iglesias.</description> <author>Johan</author></pre> <p>will be associated as basic metadata of the asset "Ayer1.avi".</p>
Custom metadata	<p>Custom metadata details like:</p> <pre>"standard-id="CUST_FLD_TXT_DATETIME_598">02/23/2015" "standard-id="CUST_FLD_TST_INT_596">15</field" "field standard-id="CUST_FLD_TXT_TIMECODE_599">00:02:05:29</field"</pre> <p>will be associated to asset "Ayer1.avi"</p>
Markers	<p>Marker details like:</p> <pre>"name="marker1" time-code="00:00:01:10" duration="00:00:00:00">The first part of the album from here</marker" "name="marker1" time-code="00:00:01:10" duration="00:00:00:00">The second part of the album from here" "name="marker1" time-code="00:00:01:10" duration="00:00:00:00">The third part of the album from here"</pre> <p>will be associated to asset "Ayer1.avi"</p>
Projects	<p>Asset "Ayer1.avi" will be assigned to sub Project "Albums1" under project "NewProjects"</p> <pre>name="NewProjects/Albums1"</pre>

c. associate-metadata

Asset 3.

```
<?xml version="1.0" encoding="UTF-8"?>
<eMAM user-key="zLEkbVGXb0UWy0avK6vOwnel7cPxV6zv6V1/+ZTxuuA=">
  <asset asset-id="30494" ingest-action="associate-metadata" file-
name="NewVideo1.mp4" version-id="35662">
    <associate file-type="original" file-action="copy" file-exist-
action="create-new-version" file-name="A013C009_160219_R0S7.mov" file-
path="D:\Project A\Bin" />
    <associate file-type="platform" file-action="copy" platform-id="1"
file-name="A013C009_160219_R0S7.mp4" file-path="D:\Project B\Clip" />
    <basic-metadata>
      <title>NewVideo1.mp4</title>
      <description>The All new video from the Collection</description>
      <author>John Garyson</author>
    </basic-metadata>
    <custom-metadata>
      <field standard-id="CUST_FLD_TST_LIST_595">VideoCategory1</field>
      <field standard-id="CUST_FLD_TXT_DATETIME_598">02/03/2016</field>
      <field standard-id="CUST_FLD_TXT_TIMECODE_599">00:00:25:50</field>
      <field standard-id="CUST_FLD_TXT_FLOAT_597">29.97</field>
    </custom-metadata>
    <categories>
      <category name="Albums/Enrique/Ayer"/>
    </categories>
  </asset>
</eMAM>
```

Asset 3 Details	Description
File name	Asset name "NewVideo1.mp4" <code>file-name="NewVideo1.mp4"</code>
Ingest action <code>associate-metadata</code>	Metadata's will be associated for an already existing asset "NewVideo1.mp4" with id 30494 in the eMAM system <code>ingest-action="associate-metadata"</code>
Basic metadata	Basic details like: <code><title>NewVideo1.mp4</title></code> <code><description>The All new video from the Collection</description></code> <code><author>John Garyson</author></code> will be associated as basic metadata for asset "NewVideo1.mp4" with id 30494.
	Custom metadata details like: <code>"standard-id="CUST_FLD_TST_LIST_595">VideoCategory1"</code> <code>"standard-id="CUST_FLD_TXT_DATETIME_598">02/03/2016"</code>

Custom metadata	<p>"standard-id="CUST_FLD_TXT_TIMECODE_599">00:00:25:50"</p> <p>"standard-id="CUST_FLD_TXT_FLOAT_597">29.97"</p> <p>will be associated with asset "NewVideo1.mp4" with id 30494.</p>
Categories	<p>"NewVideo1.mp4" will be assigned to subcategory "Albums/Enrique/Ayer"</p> <p><category name="Albums/Enrique/Ayer"/></p>
Asset id	<p>Asset Id "30494": Id of the asset from File version widget in eMAM Director interface.</p> <p>If asset id = 0, it will automatically create a new placeholder for an asset and then original/proxy files and metadata can be associated to that asset.</p>
Associate files	<p>Associate file option can also be used to associate the Original (copy/move/index), Proxy and Mezzanine files to an existing asset or placeholder. You can also attach key frames as thumbnails for videos.</p> <p><associate file-type="original" file-action="copy" file-exist-action="replace" file-name="A013C009_160219_R0S7.mov" file-path="D:\Project A\Bin" /></p>
File Type	<p>Original: Associate file to original file</p> <p>file-name="A013C009_160219_R0S7.mov"</p> <p>file-type="original"</p>
	<p>Platform: Associate file to platform file (For file type- platform, platform id is must)</p> <p>file-name="A013C009_160219_R0S7.mp4"</p> <p>file-type="platform"</p>
Platform-id	<p>If platform id is 1, it will associate to eMAM preview proxy else it will associate to corresponding mezzanine formats.</p> <p>(For file type- Platform, platform id is must).</p> <p>platform-id="1"</p>
file-exist-action	<p>While associating original files, if file-exist-action value is create-new-version, it will create a new version of the same asset.</p> <p>file-exist-action=" create-new-version"</p>

d. create-asset-placeholder

Asset 4.

```
<?xml version="1.0" encoding="UTF-8"?>
<eMAM user-key="zLEKbVGXb0UWy0avK6yQwnel7cPxV6zy6V1/+ZTxuuA=">
  <asset ingest-action="create-asset-placeholder" file-name="NextAlbum.avi">
    <basic-metadata>
      <title>Next Album</title>
      <description>Place holder for Next album video </description>
      <author>Justin</author>
    </basic-metadata>
  </asset>
</eMAM>
```

Asset 4 Details	Description
File name	Asset name "NextAlbum.avi"
Ingest action create-asset- placeholder	A virtual asset with file name "NextAlbum.avi" and title <i>Next Album</i> will be created in the eMAM system
Basic metadata	Basic details like: <title>Next Album</title> <description>Next album </description> <author>Justin</author> will be associated as basic metadata for asset "NextAlbum.avi".

Known issues

If the file action is *copy-file*, even though there are more than one categories defined in the XML file, assets will be associated only with the first category.

Glossary

XML- Extensible Markup Language is a markup language that defines a set of rules for encoding documents in a format that is both human-readable and machine-readable. XML provides a uniform method for describing and exchanging structured data that is independent of applications or vendors.

XSD- XML Schema Definition: XML Schema describes the structure of an XML document. Schemas are useful for enforcing structure and/or constraining the types of data that can be used validly within other XML documents. XML Schema Definition refers to the fully specified and currently recommended standard for use in authoring XML schemas.

HTML (Hyper Text Markup Language) is the standard markup language for creating web pages and web applications.

Attributes- An XML structural construct. A name-value pair, separated by an equal's sign, included inside a tagged element that modifies certain features of the element. All attribute values, including things like size and width, are in fact text strings and not numbers.

Elements- An XML structural construct. An XML element consists of a start tag, an end tag, and the information between the tags, which is often referred to as the contents. Each element has a type, identified by name, sometimes called its "generic identifier" (GI), and may have a set of attribute specifications. Each attribute specification has a name and a value. An instance of an element is declared using <element> tags.

Schema- A formal specification of element names that indicates which elements are allowed in an XML document, and in what combinations. It also defines the structure of the document: which elements are child elements of others, the sequence in which the child elements can appear, and the number of child elements. It defines whether an element is empty or can include text. The schema can also define default values for attributes.

Link to HTML page

http://empressmam.com/demo/eMAM_SidecarIngest_XML_Specification5_2/index.html

Get Help

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