

# PROPOSAL

**Etere**  
a consistent system

## VIMN:

A Cloud-based and Workflow-driven solution for a smooth management of internal shared content

**VIACOM**  
INTERNATIONAL  
MEDIA NETWORKS

October 2013



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## ▼ 6.3.2 OVERVIEW AND PROPOSAL DIFFERENTIATORS

**Viacom International Media Networks (VIMN)** is the international division of Viacom, the network that oversees the production, broadcasting and promotion of key Viacom brands including **MTV, BET, Comedy Central, Paramount, VIVA** and **Nickelodeon**, which are viewed by 700 million households across the world available in 30 languages via 200 locally programmed and operated TV channels and more than 550 digital media properties. **VIMN** has headquarters in New York, London and Warsaw; other international offices are located in Amsterdam, Berlin, Paris, Singapore, Stockholm, and Sydney; whilst regional offices are found in Athens, Budapest, Buenos Aires, Dublin, Madrid, Miami, Milan, Sao Paolo, Seoul, Tel-Aviv, Tokyo and Zagreb.

The **international shared content** intended to be aired on international VIMN networks -after US premiere- is processed on the core facilities located in New York, where the **international content supply chain** starts, embracing creation, ingest, preparation, transcoding, localization and delivery of compliant content.

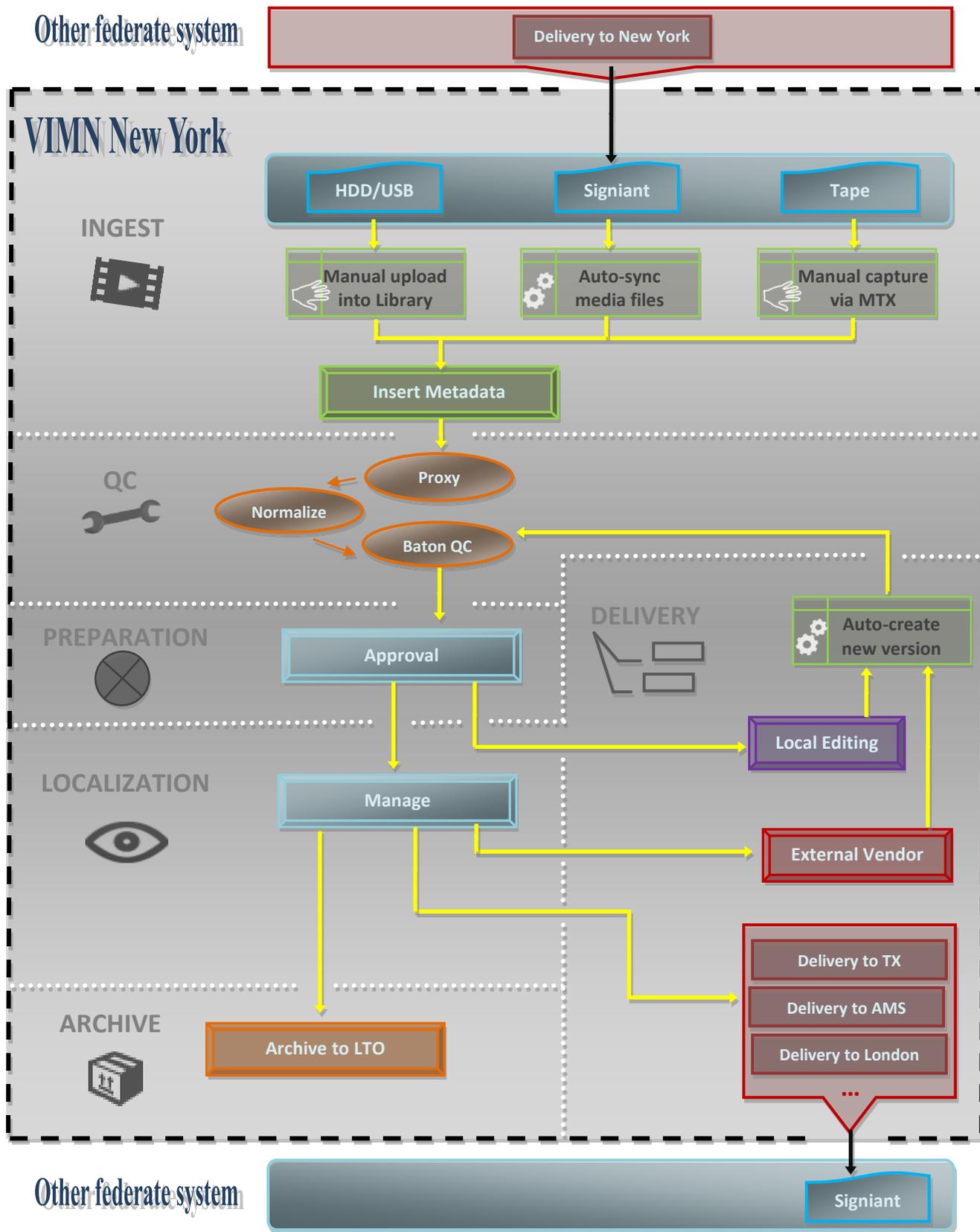
**ETERE** is able to provide **VIMN** with a **cloud-based and workflow-driven solution** able to improve the international media activity of the company thanks to a centralized and integrated cloud approach that perfectly fits the “hub and spoke” distribution model used by VIMN. A set of tailored workflows will permit planning and tracking every single step of the MAM process in a 100% versatile and flexible manner, enabling a high level of scalability to encompass future changes in the global chain.

This paper is aimed to provide a detailed specification on the key **Etere features** that will enable VIMN to smoothly **manage its internal shared content** from end-to-end, from the initial creation of placeholders to final delivery of localized compliant content. The use of workflow-based technology will permit **VIMN** to significantly improve its **international content supply chain** by introducing the following enterprise capabilities:

### Key capabilities:

- Intelligent and tailored workflows which faithfully reflects company activities
- Clear abstraction of tasks with custom actions, results, roles and rights
- Detailed logging and monitoring of all manual and automatic tasks
- Scalability for including/modifying custom workflows and tasks at any time
- Highly automated management of media mastering and localization operations

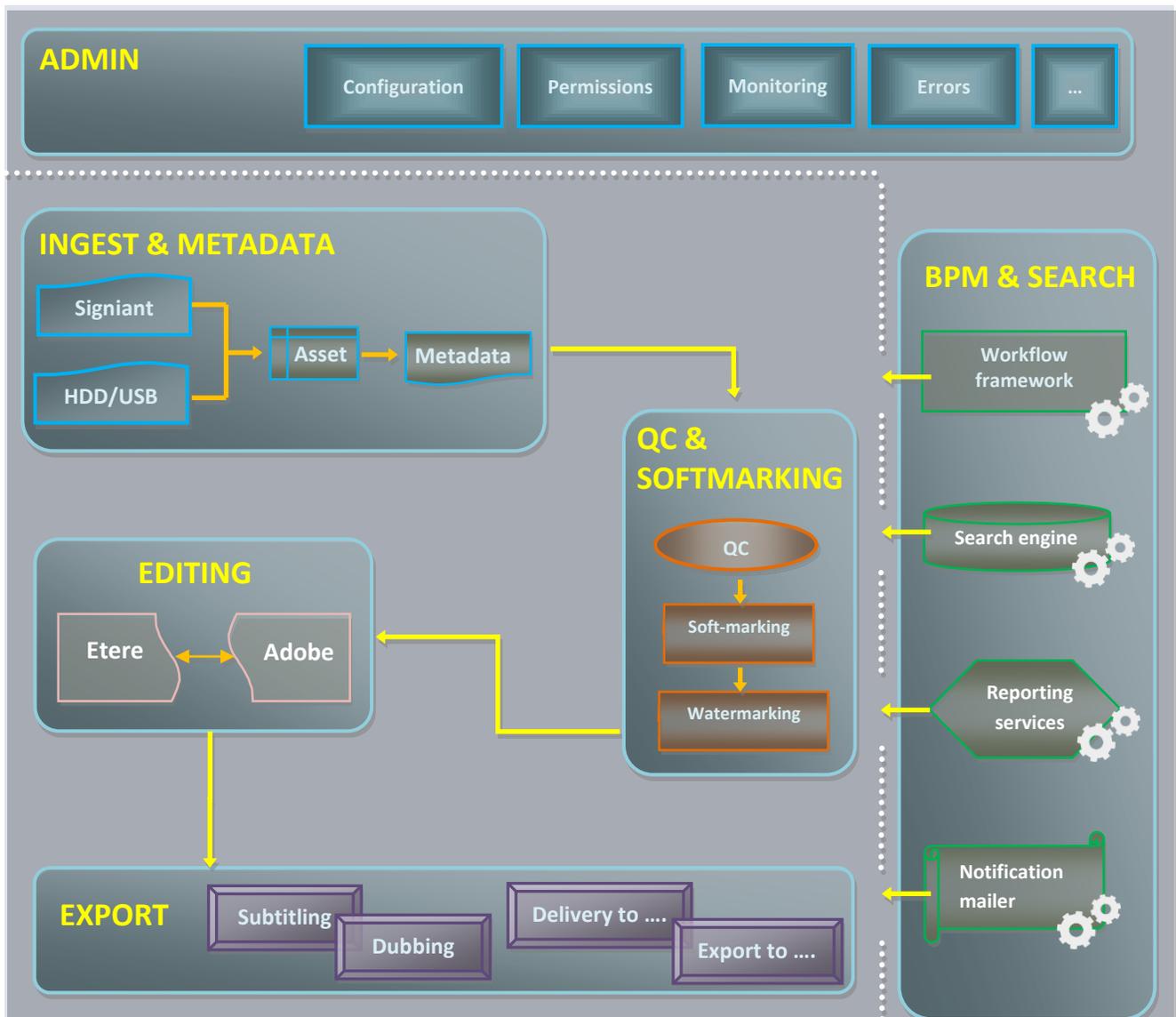
The overall management of the system proposed by Etere is illustrated in the following diagram:



### ▼ 6.3.3 SUMMARY OF UNDERSTANDING OF SCOPE & ABILITY TO MEET VIACOM REQUIREMENTS

The **international content supply chain** will be improved through the use of **file-based workflows** accurately designed to abstract the single operations involved in the main process, including both automatic actions performed by Etere (or integrated third-parties) and manual actions requiring operators interventions through the completion of tasks.

In this chapter will be provided a point-by-point explanation on how Etere will fulfill the specific requirements requested by **VIMN**. The following diagram illustrates the organization of **topics** covered in this chapter:

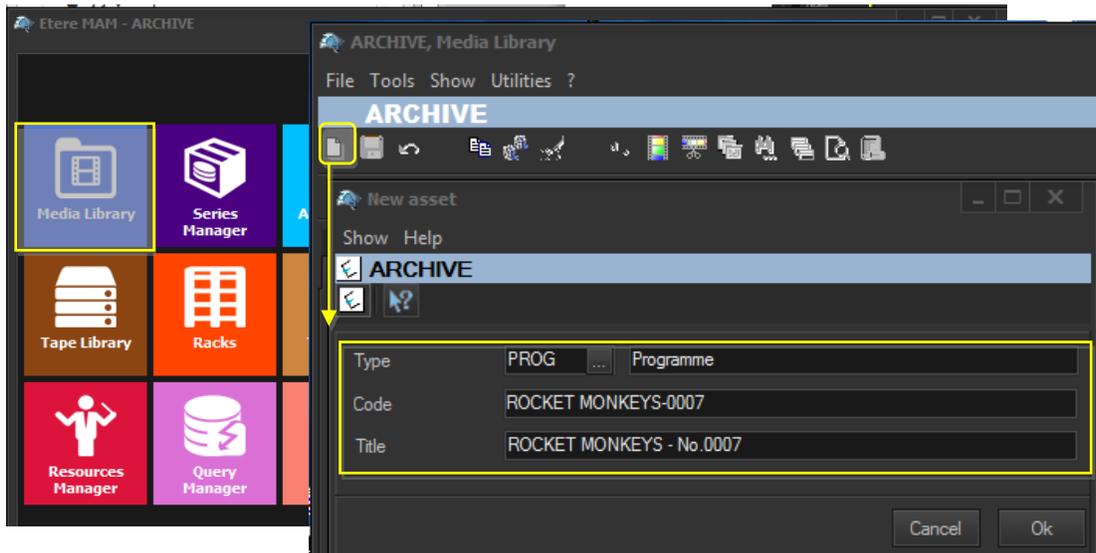


### ▼ 6.3.3.1 INGEST AND METADATA

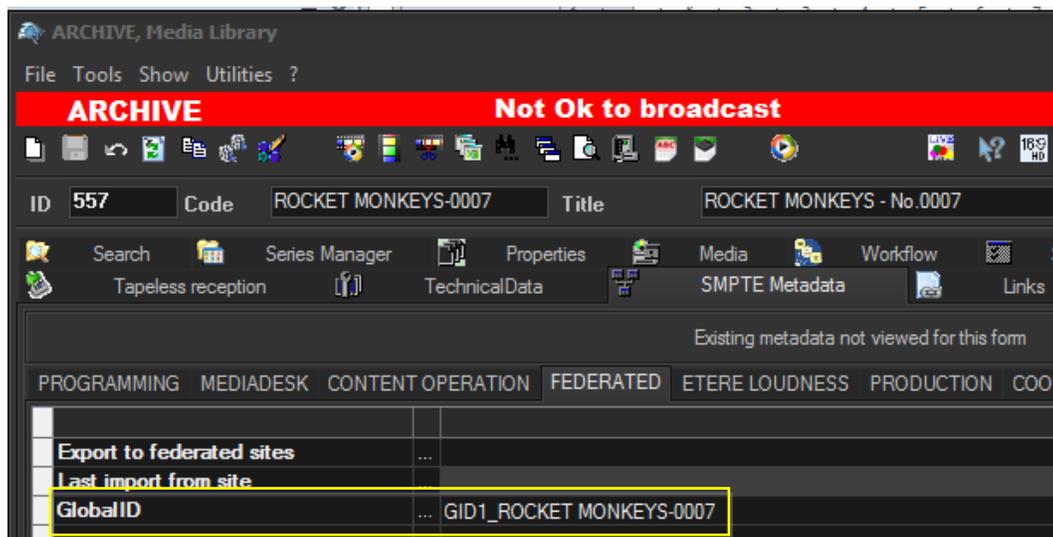
#### ▼ 6.3.3.1.1 How do I create a placeholder?

(Content placeholders)

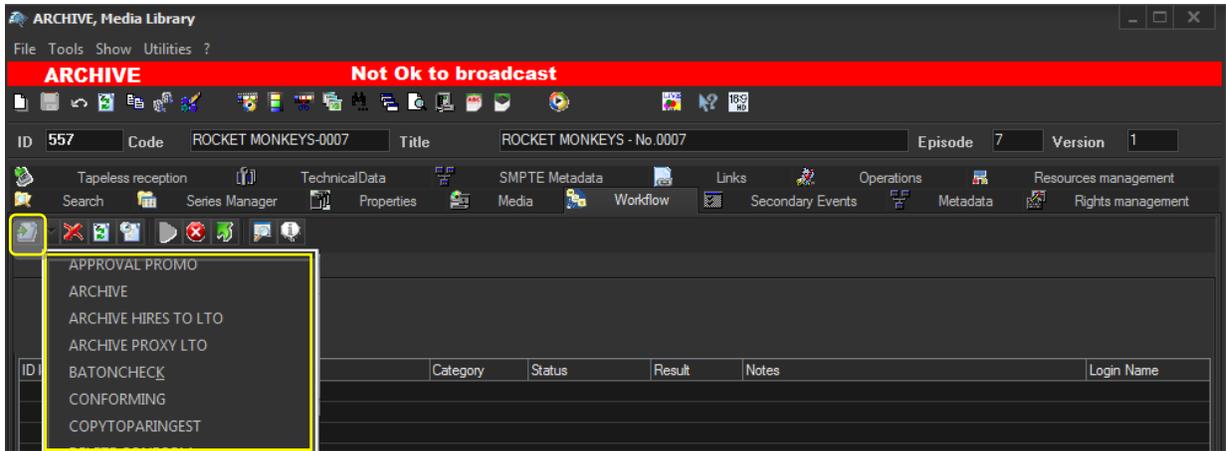
The **Etere Media Library** will enable authorized users forming part of the **Editorial Team** to create placeholders for **international shared content** before receiving material, this, in a **share point site**. Creating a new asset requires specifying a minimum data:



After the placeholder has been created, the **Editorial Team** will be enabled to immediately set the “**Global ID**” metadata that globally identifies the asset in the federate system:



**Internal users** will be automatically notified about the availability of the new asset, thus making them able to start required tasks launching specific workflows:

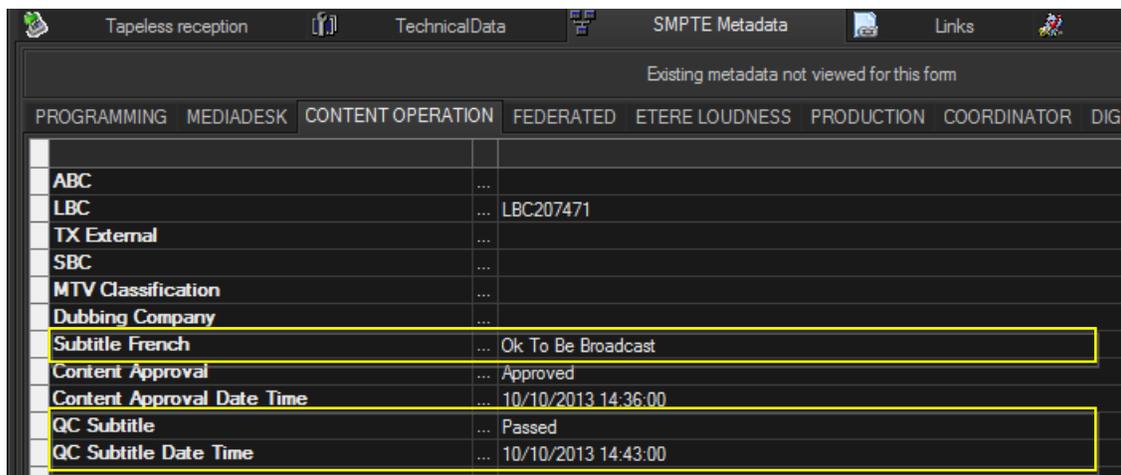


It's worth mentioning that the workflow-based management implemented by Etere will allow having a truly multi-format archive enable to deliver media in the right format. As soon as a production master is ingested, the **ingest workflow** triggers the transcoding to NTSC master, PAL master and Lowres proxy.

▼ 6.3.3.1.2 How does content look coming into the system from other parties (QC house, language houses)?

(Status of external operations)

Tracking the progress of operations being performed by vendors will be possible through the status of the related workflow and specific SMPTE metadata (e.g. Completion status, Completion time, etc.), modifying said metadata - either manually or via XML- will be allowed for VIMN partners (e.g. tape ingest, QC, Subtitling) to detail the current progress status.



▼ 6.3.3.1.3 What does it look like when an asset and component (e.g. language track) arrives?

(Reception of components)

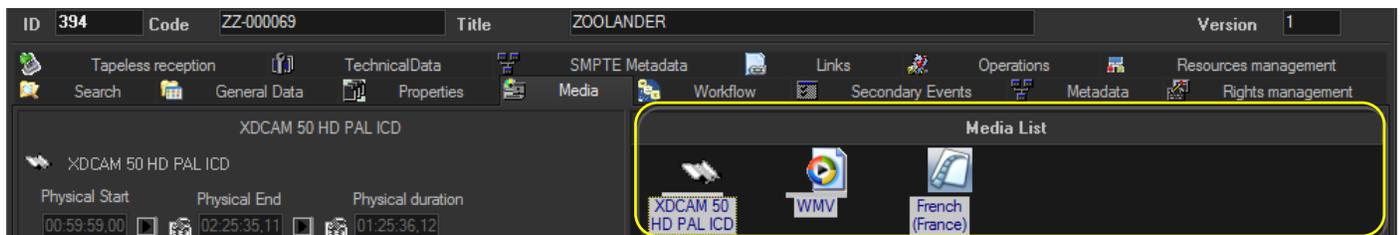
Every time a component arrives into Etere from vendors, the pertinent user groups are automatically notified so they can open the **Media Library** and see under the “Media” tab the corresponding files:



▼ 6.3.3.1.4 How are the different elements displayed?

(Media linked to assets)

All components (e.g. hires, lowres, audio, subtitles, etc.) linked to assets are displayed in the **Media Library**:



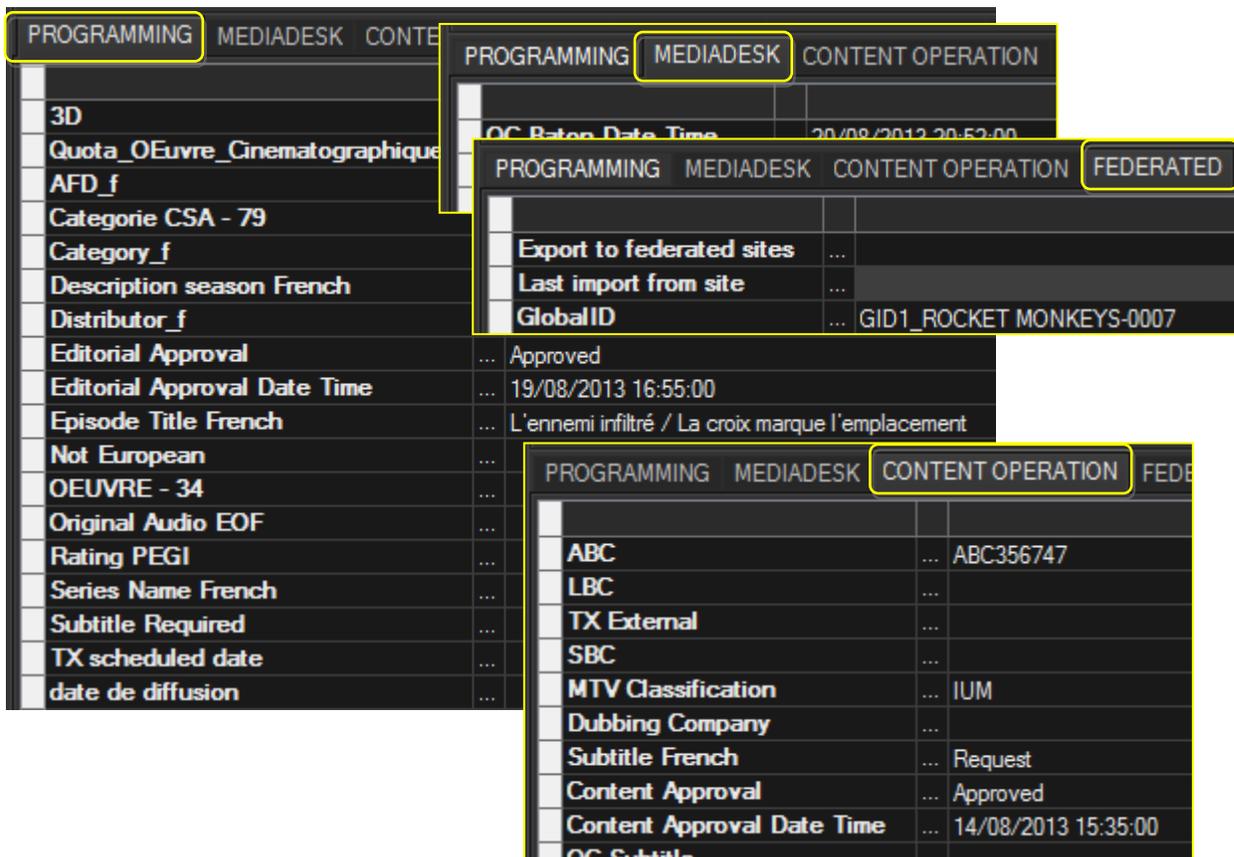
Components managed for VIMN are following listed including their equivalent in Etere:

Components managed by VIMN	Equivalent components in Etere
Locked cut proxy	LoRes file
US NTSC master	HiRes file
US NTSC proxy	LoRes file
US NTSC closed caption subtitles	Subtitle file
US Air master, with NTSC subtitles	HiRes file
International NFR master	HiRes file
International NTSC Video master	HiRes file
International PAL Video master	HiRes file
English mix	Audio file
Music & Effects	Audio files
Censored (beeped) audio stem	Audio file
Uncensored audio stem	Audio file
Laughter track	Audio file
Textless elements	HiRes file
IRM – Post 9pm version	HiRes file
IUM – All day part version	HiRes file
Subtitle files	Subtitle file
Wav files	Audio files
Episode synopsis	Text file
Local script	Text file

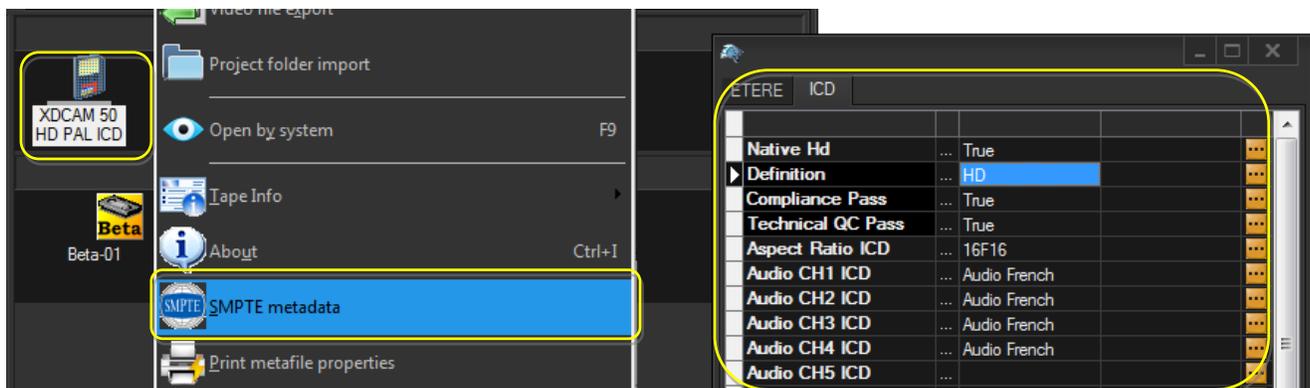
▼ 6.3.3.1.5 How do I see a collated view of all metadata available - due dates, publishing dates, languaging dates?

(Metadata views)

All placeholders have an **SMPTE metadata** section containing all the metadata needed for their management, for a better management said metadata is organized into different views according to their scope:



Besides for placeholders, **metadata** is also managed for **each component part (file)**:

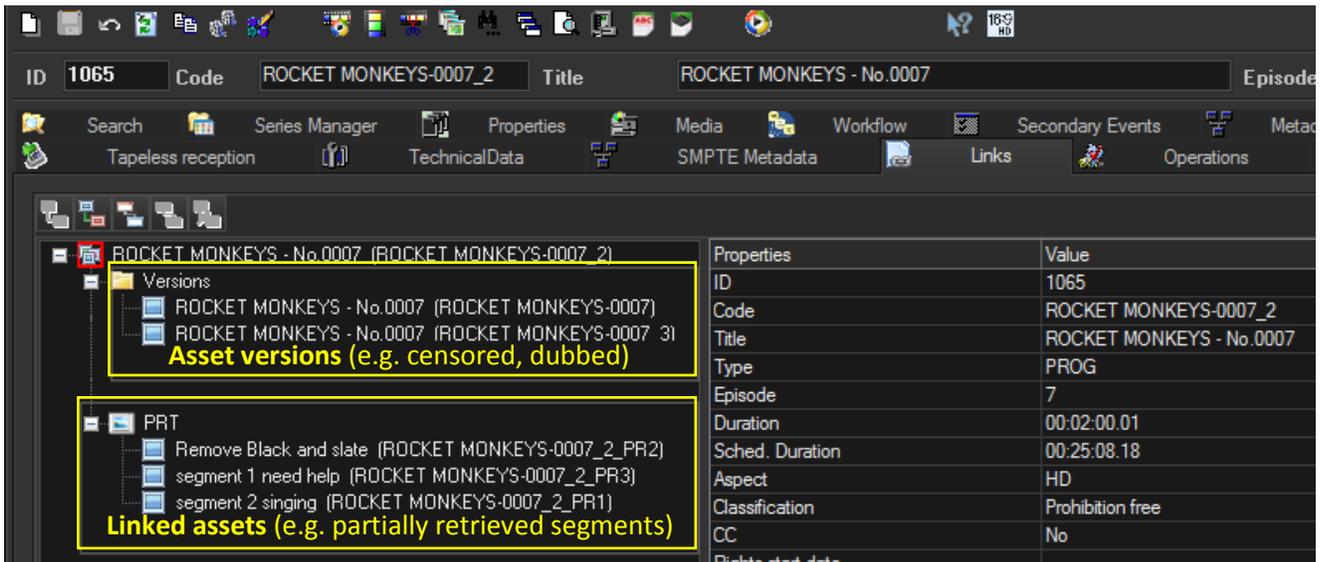


A key feature allows to take automatic decisions on workflows based on the content of asset's metadata; for instance, the “**Subtitle French**” (e.g. not requested, requested, delivered, received, positive QC, negative QC, etc.) will indicate if a certain asset needs or not requesting subtitles to a vendor.

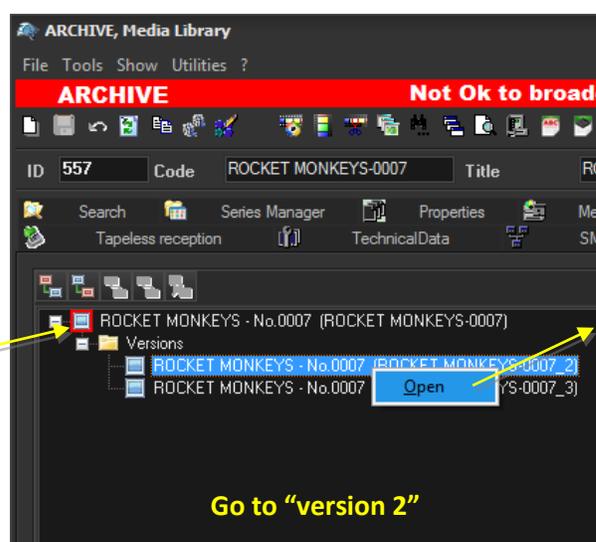
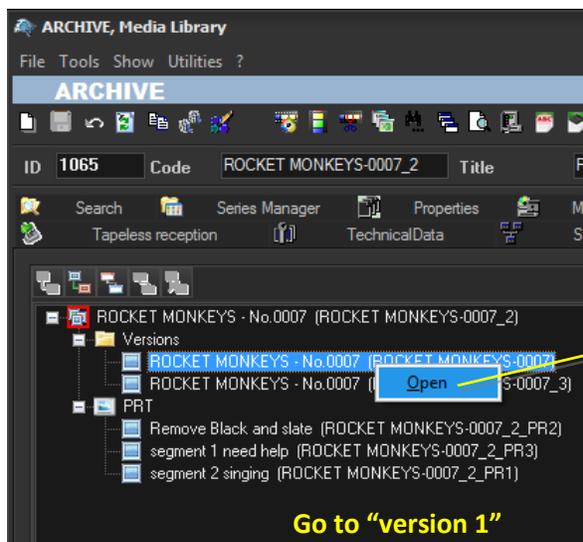
▼ 6.3.3.1.6 Demonstrate relationships between assets – parent/child

(Content relationships)

The **parent-child structure** used by Etere for managing assets allows having multiple placeholders (e.g. component parts) related to the same placeholder (e.g. episode). Adding metadata (e.g. localized) and files (e.g. images) to placeholders are possible for parent and children, it can be done jumping between them:

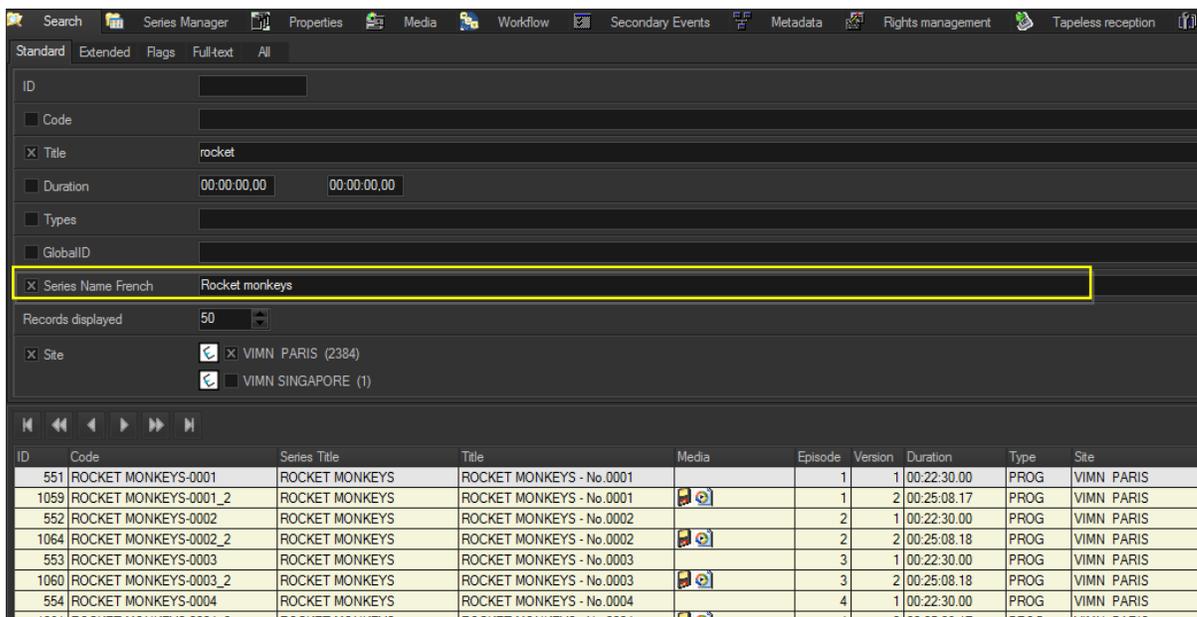


Moving between versions and linked assets is easy and quick, it only needs one click:

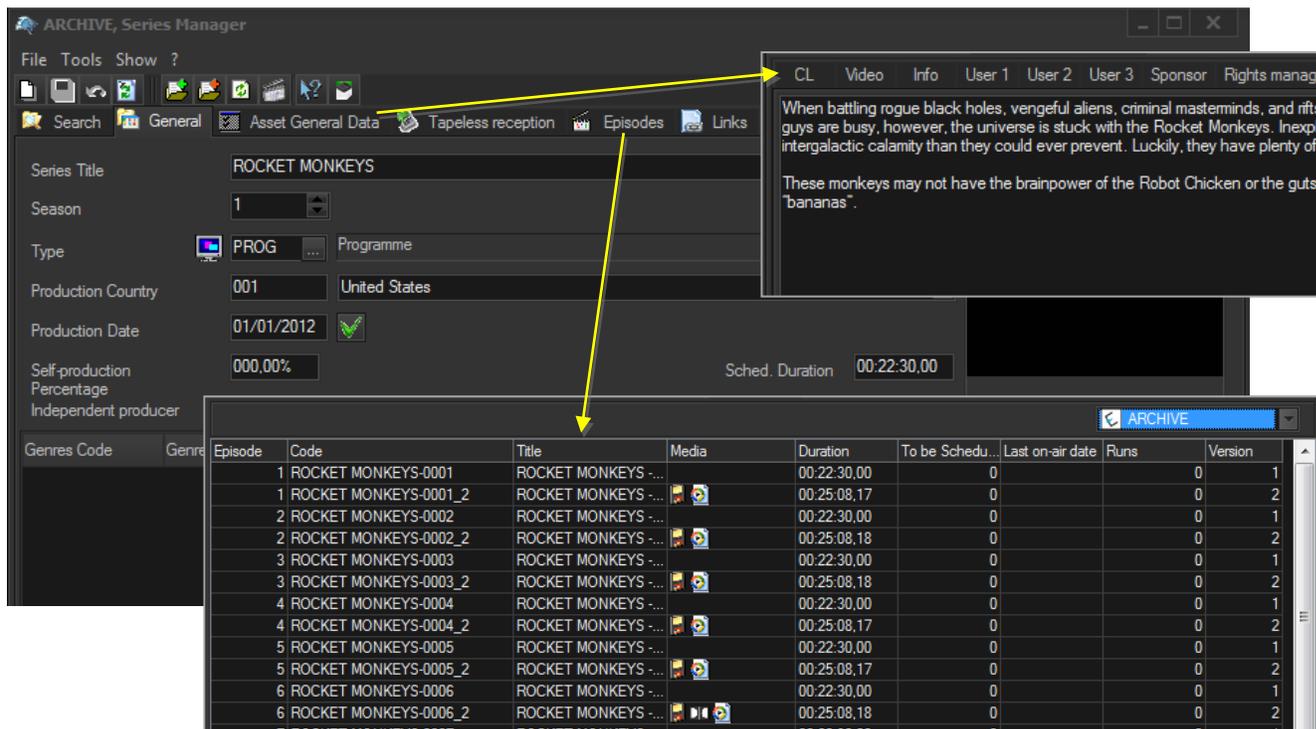


Additionally, it's worth mentioning that the structure levels needed by VIMN for its placeholders will be supported according to the following hierarchy:

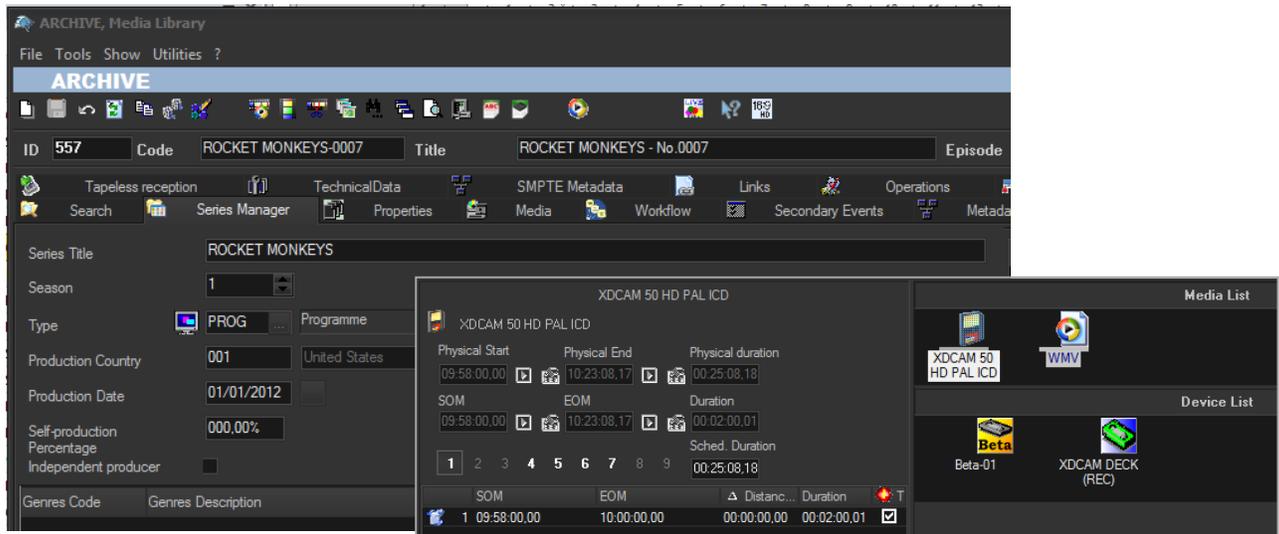
- **Franchise** is managed as a metadata exclusively available for Series, Special and Movies.



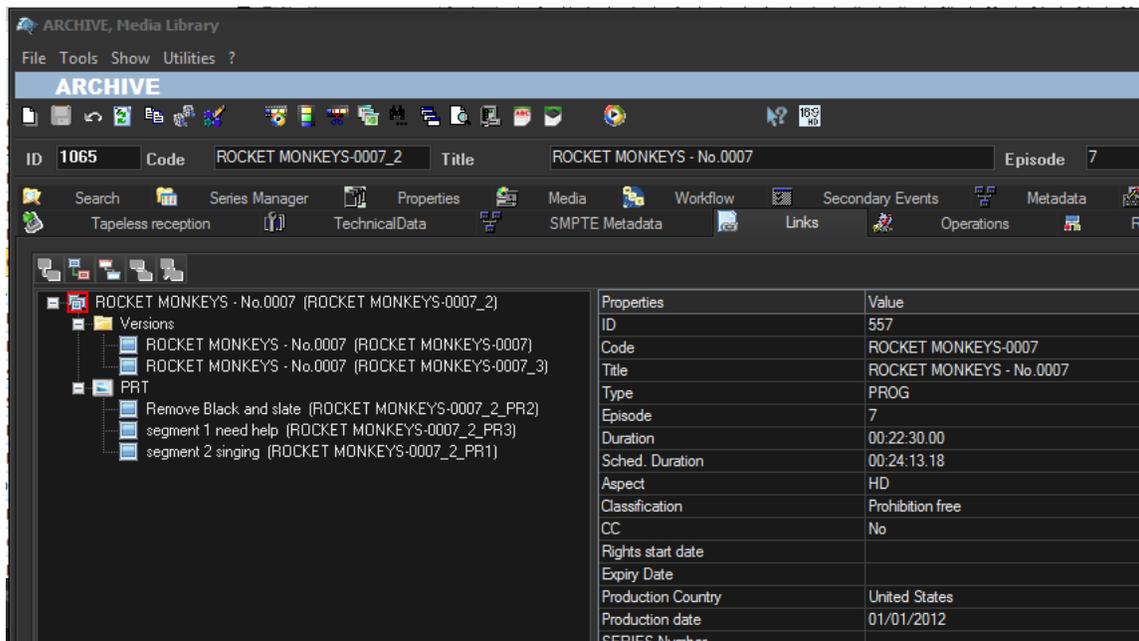
- **Series** are managed as container of multiple episodes related to a specific season, this, from the *Series Manager*.



- **Specials, Movies and Episodes** are managed as single assets from the *Media Library*.



- **Variations** made for Specials, Movies and Episodes are managed as “versions”, they are created either manually or automatically (via workflow):



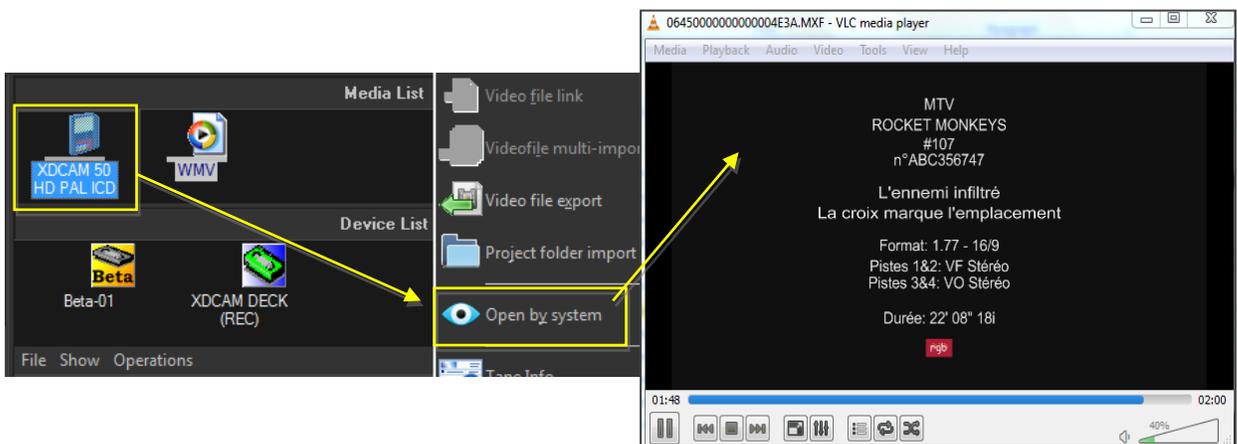
▼ 6.3.3.2 QC AND SOFTMARKING

▼ 6.3.3.2.1 How do I preview and QC content as well as individual components (e.g. subtitle or language track) including SCC/STL/PAC/TTML

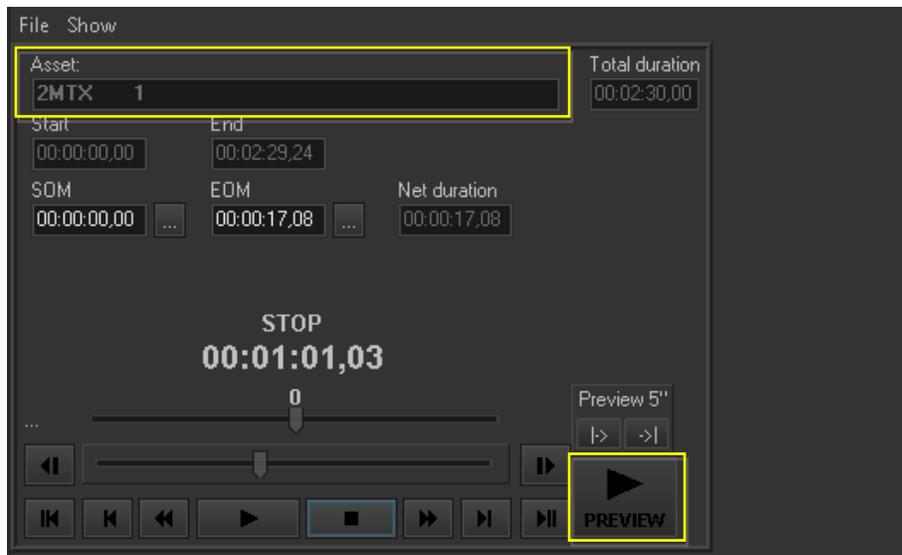
(Preview and control)

Etere provides multiple ways for previewing media depending on the browsing scope, for instance:

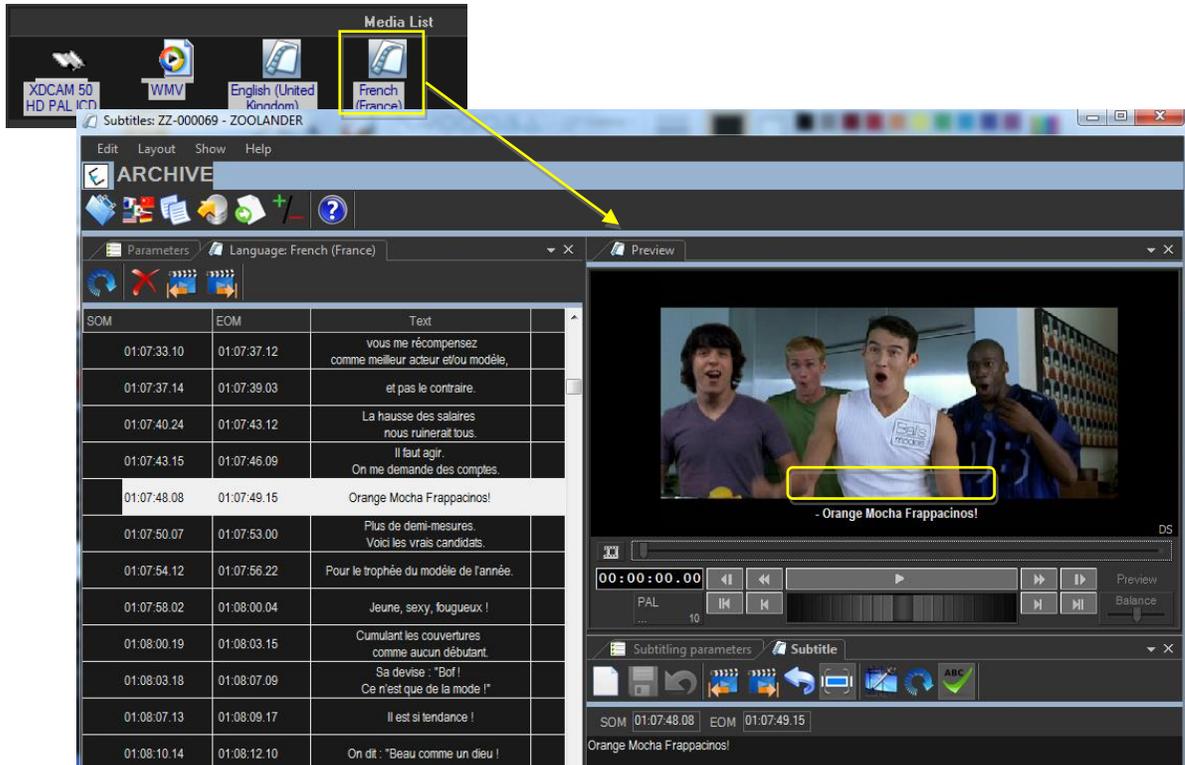
- **External player:** HiRes media can be opened using the **external player** (e.g. VLC) set in the Windows system as the *default application* for opening the requested **file type** (e.g. MXF):



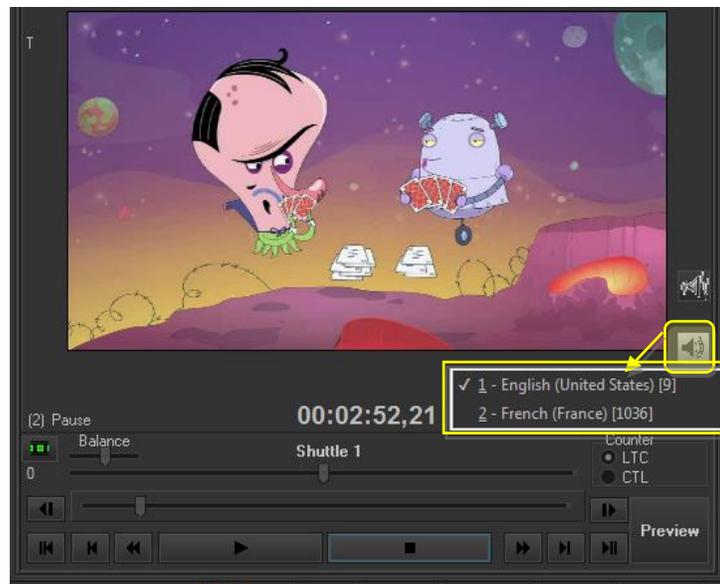
- **Video server:** HiRes media stored on video servers can be directly played in a professional built-it player to allow, for instance, previewing it in an external monitor:



- **Subtitles** : Subtitled media can be previewed in the “**Subtitles Tool**”, which also allows importing and exporting subtitles as well as manually editing:



It's worth mentioning that choosing the **audio language** to be played during the preview is possible for *multilanguage media*:



▼ 6.3.3.2.2 Show me how a baton report can trigger a workflow

(Baton integration)

Once ingested (via Signiant or HardDisk from internal studios, partners and other 3rd party studios) a file integrity check and validate will be automatically performed against VIMN's specifications using an automated **Baton QC** managed via workflow:



Example of a workflow integrating Baton QC

The **Baton QC** will be also automatically performed for for "mastered" files or derivatives (ie subtitle file, Language customized video master, M & E track) received into the system. When the auto QC is completed, Baton's technical information is saved into Etere as:

- PDF document in the **asset's virtual documents**:

**Virtual Document**

Virtual Document n° 21

Date: 31/07/2013 17:47:00 | Description: Baton QC on 0645000000000004AB3

**Verification Report**

File Name: 0645000000000004E3A.MXF

Verified By: HDMXF-XDCAMHD-FRA profile June13

Task executed on: 27 Aug 13, 7:24:53 PM

Company Name: VIMN

Result: Failure (Errors: 1, Warnings: 5892)

**Verification Summary**

Content Verified: 0645000000000004AB3.mxf

Format: MXF

Test Plan Used: SDMXF-IMX50-FRA profile June13

Task Result: Content has warnings

Number of errors: 0

Number of warnings: 1

Task Created on: 31 Jul 13, 5:43:03 PM

Task created by: [Name]

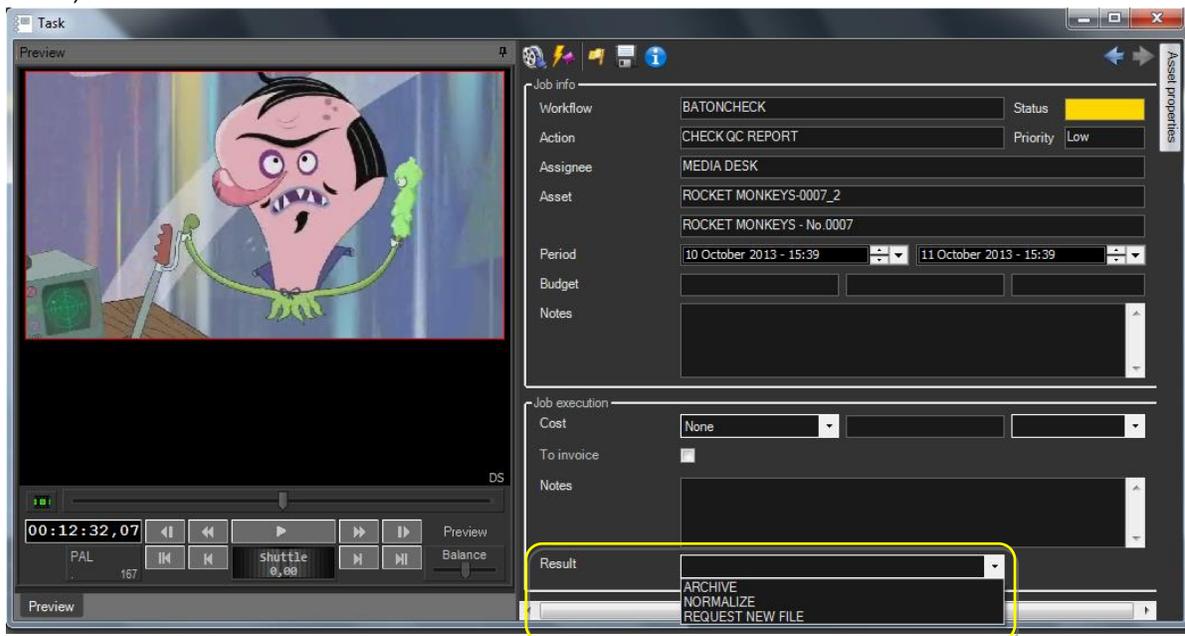
**Content Summary**

Container		Video		Audio	
Format	MXF	Format	MPEG2 Video	Format	AES3 Audio
Video tracks	1	Profile	4:2:2	Bit rate	1152 (kbps)
Audio tracks	1	Resolution	720x608	Sample rate	48000 (Hz)
		Chroma format	4:2:2	Channels	4
		Frame rate	25 fps		
		Picture scanning type	Interlaced		

- An **asset EDL** containing timecode marks to, for instance, transcoding media:

XDCAM 50 HD PAL ICD									
XDCAM 50 HD PAL ICD									
Physical Start	Physical End	Physical duration							
09:58:00,00	10:23:08,17	00:25:08,18							
SOM	EOM	Duration							
09:58:00,00	10:23:08,17	00:25:08,16							
		Sched. Duration							
1	2	3	4	5	6	7	8	9	
SOM	EOM	Δ Distanc...	Duration	T	Description				
1	09:58:00,00	09:58:00,00	00:00:00,00	00:00:00,01	☑	[CAUTION]Potentially Harmful Video Flashes detected.			
2	09:58:00,00	09:58:00,00	00:00:00,00	00:00:00,01	☑	[CAUTION]Potentially Harmful Video Flashes detected.			
3	19:59:53,22	19:59:53,22	10:01:53,22	00:00:00,01	☑	Extended Flashing Video Activity Detected			

If the **Baton QC** fails, a **task** will be assigned to a **“Supervisor QC”** (who will be notified) to investigate the issue using HiRes QC and engage with the partner who submitted the content (a new version will be created for the content):



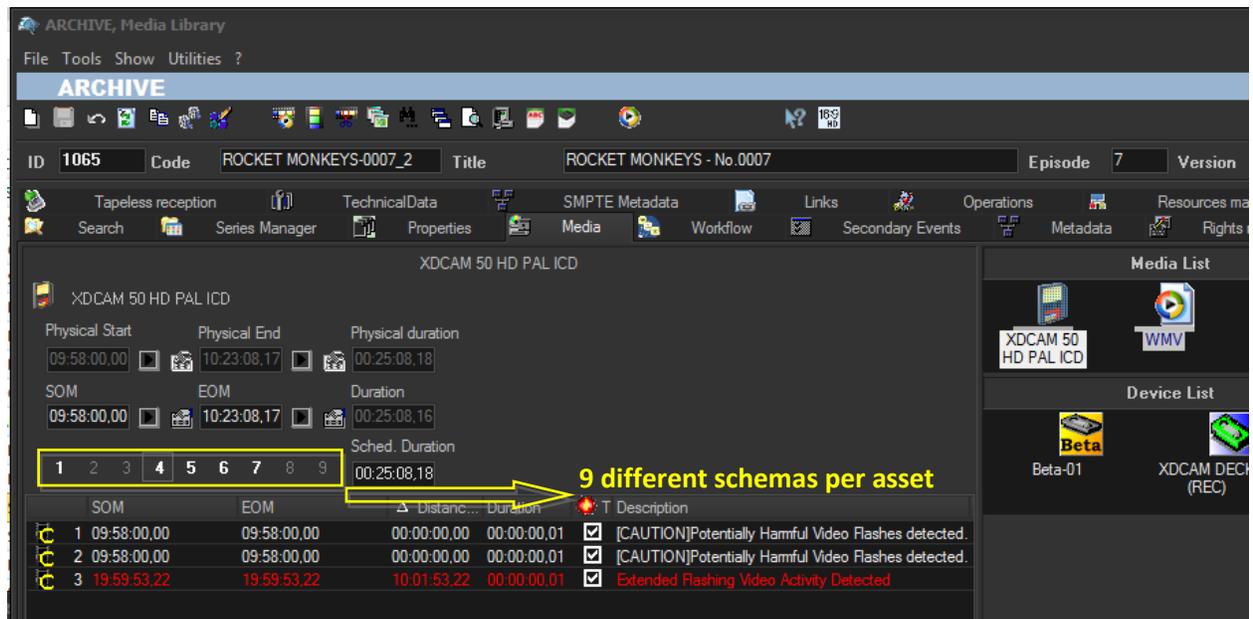
Once the **QC process** is completed, MAM users specified in the workflow are automatically alerted about the availability of the component part (based on a SMPTE metadata). **Baton QC** operations can be tracked from the **Workflow Monitor**, displaying relevant information:

Workflow monitor												
Workflow: BatonCheck												
Workflow	Object	Status	Count									
BatonCheck	Asset	Workflow complete	3									
24%												
ID	Code	Description	Workflow	Workflow status	Resilience	Priority	Action	Action status	Creation date	Start date	Estimated end date	Estimated progress
13	13	TestInerstart	BatonCheck	Workflow active			Baton Quality Check: MASTE	Running	10/14/2013 10:27:14	10/14/2013 10:27:14	10/14/2013 10:28:14	24%

▼ 6.3.3.2.3 How do I do soft-marking?

(Soft-marking)

The **NY ICM team** and **External post-production partners** will be enabled to add marks into an asset EDL (up to nine different schemas) to match specific break patterns, this, can be done on a new asset version containing all EDL copied from the master asset:



The **international master** will be marked up from the **Etere Media Library**, inserting technical parts (e.g. black cuts) and editorial content related parts (e.g. bumper, intro, outro, etc.) to be subsequently conformed.

One or all EDL schemas can be consulted generating a “**cue sheet**” report:

N.4	ARCHIVE	00:00:00.00	00:25:08.17		
	SOM	EOM	Description	Type	
	Video Fault	00:00:00.00	00:00:00.00	[CAUTION]Potentially Harmful Video Flashes detected.	
	Video Fault	00:00:00.00	00:00:00.00	[CAUTION]Potentially Harmful Video Flashes detected.	
	Video Fault	00:01:53.22	00:01:53.22	Extended Flashing Video Activity Detected	

It’s worth mentioning that EDL mark points set for the **international master** will be inherited by subsequently added derivatives including frame rate converted versions (PAL/NTSC).

▼ 6.3.3.2.4 What does multiple levels of soft-marking look like?

(Soft-marking levels)

Etere allows managing up to **9 different EDL** for each asset; this key feature allows storing different schemas separately, for instance:

		SOM		EOM		Δ Distanc...		Duration		T Description		Type	Linked Asset Form
1	09:58:00,00	10:00:00,00	00:00:00,00	00:02:00,01	☑	Remove Black and slate	EDITING	ROCKET MONKEYS-0007_2_PF					
2	10:08:00,00	10:09:00,00	00:08:00,00	00:01:00,01	☑	segment 1 need help	EDITING	ROCKET MONKEYS-0007_2_PF					
3	10:18:00,00	10:19:00,00	00:09:00,00	00:01:00,01	☑	segment 2 singing	EDITING	ROCKET MONKEYS-0007_2_PF					

EDL #1	EDL #4	EDL #5	EDL #6, 7
Visible segments marks	Baton results marks	CMS automatic marks	Censorship editing marks

▼ 6.3.3.2.5 How do I apply batch soft-marking to multiple assets (VOD deal – always cut out the blacks, precaps & recaps )

(Batch conforming)

The ability of **Etere Media Library** to launch workflows for multiple assets allows performing a soft-marking for several assets with just one click, this, by selecting them from the search results and choosing the pertinent **conforming workflow**:

The screenshot shows the Etere Media Library interface. At the top, there are tabs for 'Standard', 'Extended', 'Flags', 'Full-text', and 'All'. Below these are search filters for ID, Code, Title (set to 'bluedragon'), Duration, Types (set to 'INT'), GlobalID, and Series Name French. A 'Records displayed' dropdown is set to 50. Below the filters is a table of search results with columns for ID, Code, Series Title, Title, and Media. Several rows are highlighted in blue. A context menu is open over the selected rows, showing options like 'Open', 'Select all', 'Launch workflow', 'Workflow info', 'Export', 'Print', 'New asset', 'Create backup', 'Add asset to series', 'Change event type', 'View thumbnail', 'Preview', 'Virtual Document', 'Show', and 'Default settings'. The 'Launch workflow' option is highlighted, and a sub-menu is visible on the right showing various workflow options, with 'CONFORMING' and 'CONFORMINGEDL1' highlighted in blue.

The selected **conforming workflow** will be started for all selected assets:

A new version will be created for each requested asset; versions will contain the conformed file (useful information will be indicated):

File Path	Name	Value
OF.01.05.00.00.00.00.00	Original source	Conforming
OF.FD.10.04.00.00.00.00.00	Episode-Title-French	1
OF.FD.1F.01.01.00.00.00.00	Subtitle-French	Not Request
OF.FD.15.02.01.00.00.00.00	Originator EDL Number	1

The capability to **create on-the-fly derivatives** (by transcoding the master asset will be possible through the use of specific workflows) will eliminate the need to keep all derivatives generated along the management process (they can be automatically deleted based on their oldness).

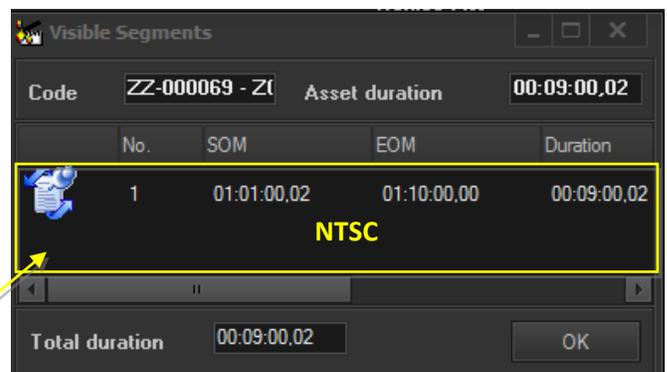
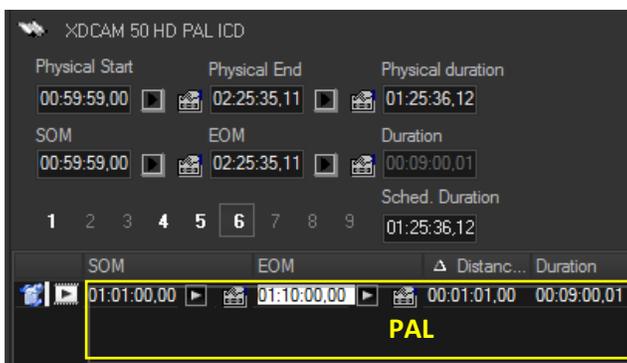
▼ 6.3.3.2.6 Mark up a 23.98 file and demonstrate those markers can be shared across frame-rate converted derivatives

(Multiple frame-rate support)

Etere is able to preview media (e.g. frame rate converted PAL/NTSC versions) displaying the timecode in both, PAL and NTSC format:



Additionally, displaying **EDL schemas** in different video standards (PAL, NTSC) is possible from the **Media Library**:

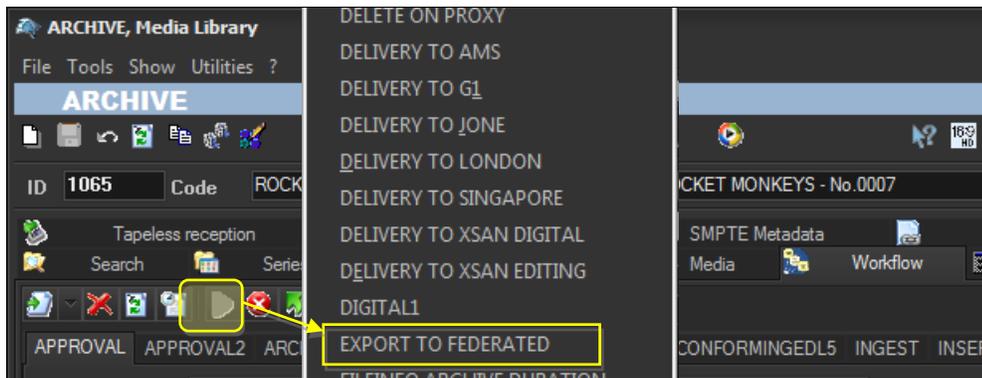


▼ 6.3.3.3 EXPORT

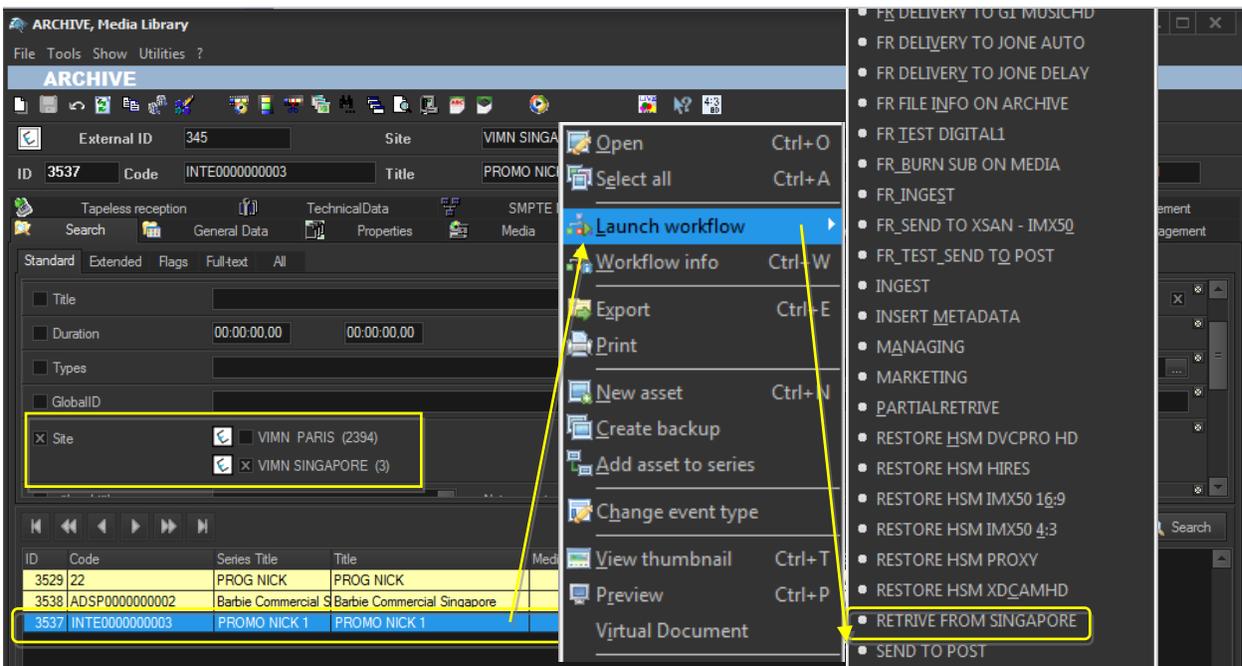
▼ 6.3.3.3.1 How does the shopping cart and export feature look?

(Request of orders)

Once **international content** is ready for being supplied, the “**Export to federate**” workflow is launched to publish the asset on other federate sites and notify subscribed users about its availability for request.



Published assets can be retrieved (**pulled**) by users of remote sites; for instance, a **Paris** user can search for an asset stored in **Singapore** and launch a workflow to request it (*the launched workflow will trigger in the remote system a workflow that will make the file locally available for the requester e.g. on a shared FTP path*):

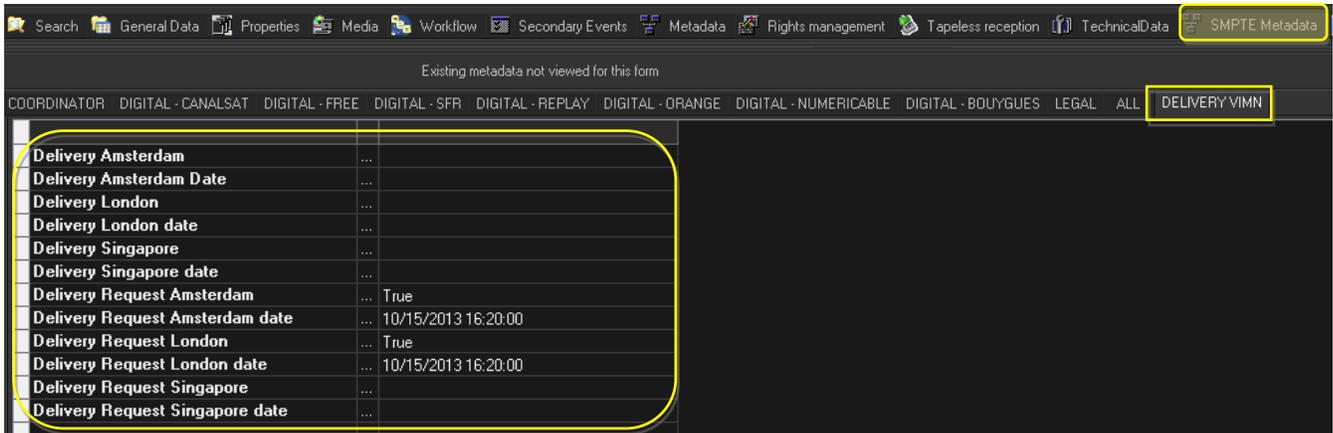


Alternatively, **international content** can be directly delivered (**pushed**) through a set of workflows specific for each vendor as explained in the “**Custom delivery orders**” chapter.

▼ 6.3.3.3.2 Demonstrate remapping/muxing capabilities on export. How can I build an order of multiple assets mixing and matching frame rates & language(s)

(Delivery of orders)

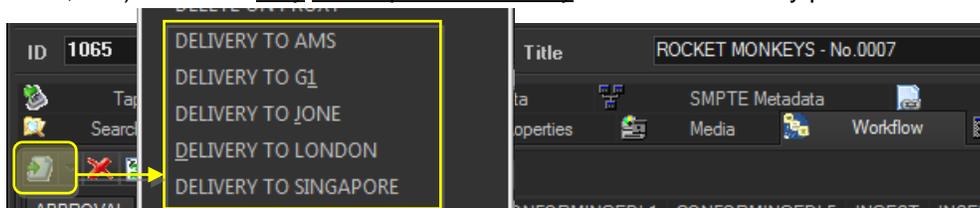
A wide set of delivery workflows are provided to deliver assets to specific targets following **specific criteria** (e.g. *Pal video with only M&E, NTSC with only English, production master with all audio tracks etc.*). Delivery of **international content** is controlled through a **special set of SMPTE metadata** (e.g. Delivery VIMN):



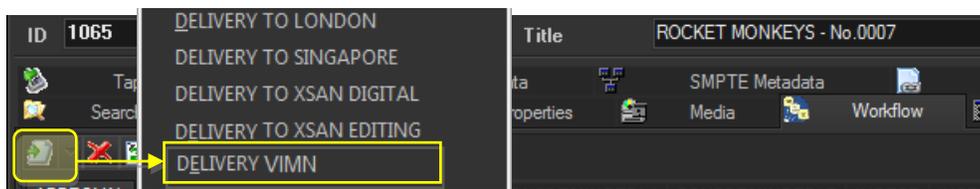
As shown above, every time a certain delivery is requested (e.g. Amsterdam) its related metadata is set to “true” and once the delivery is completed a metadata is set with the **date and time**.

Once requested, deliveries can be launched either individually or grouped, just as described below:

- **Individual:** Launching one of the available delivery workflows (e.g. **Delivery to Amsterdam, Delivery to London**, etc.) will make only the requested delivery to be automatically performed:



- **Group:** Launching only one workflow (e.g. **Delivery VIMN**) can automatically trigger all the deliveries for which a request has been received (i.e. for which the related metadata is compiled). Creating workflows that mix different deliveries is an easy task that can significantly speed-up the delivery process.

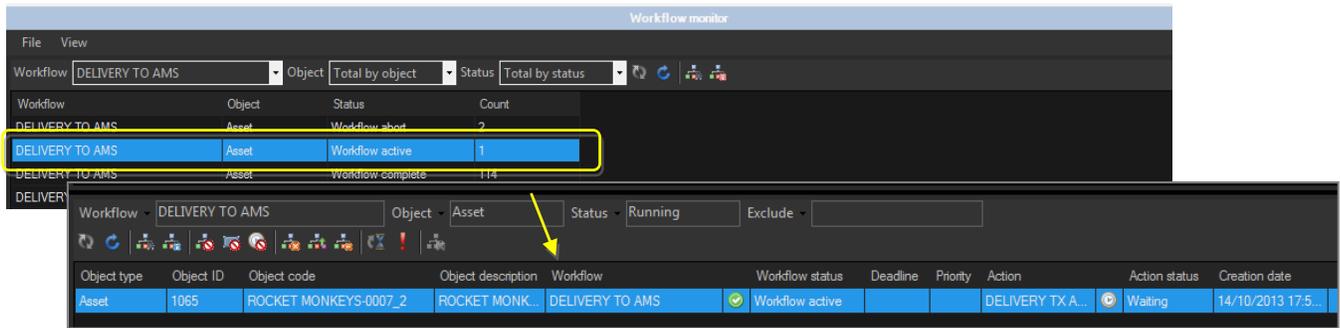


It's worth mentioning that in case a delivery metadata is set for an asset, future asset versions will inherit this property so requesting the file will be always possible at any time.

▼ 6.3.3.3.3 How can I see who ordered what?

(Requests monitoring)

Delivery orders requested by federate sites (e.g. Amsterdam) can be easily monitored from the **Workflow Monitoring** module, filtering the **related delivery workflow** (e.g. Delivery to AMS) and consulting their info:

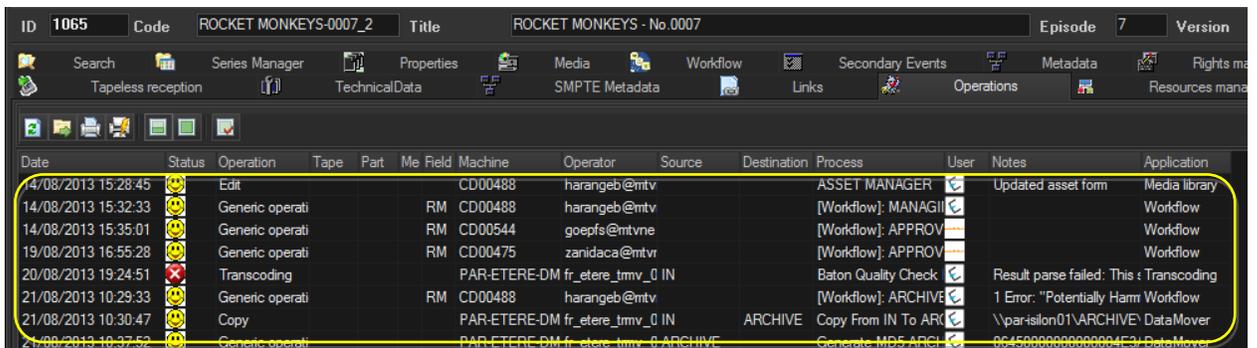


▼ 6.3.3.3.4 How can I view the history of an asset, where is been sent

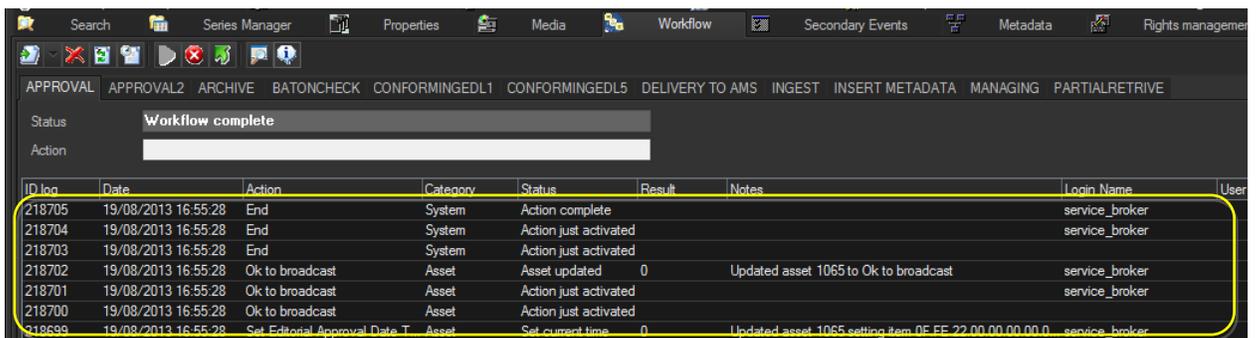
(Operations history)

All actions performed in Etere are recorded, this make available to consult almost any particular including:

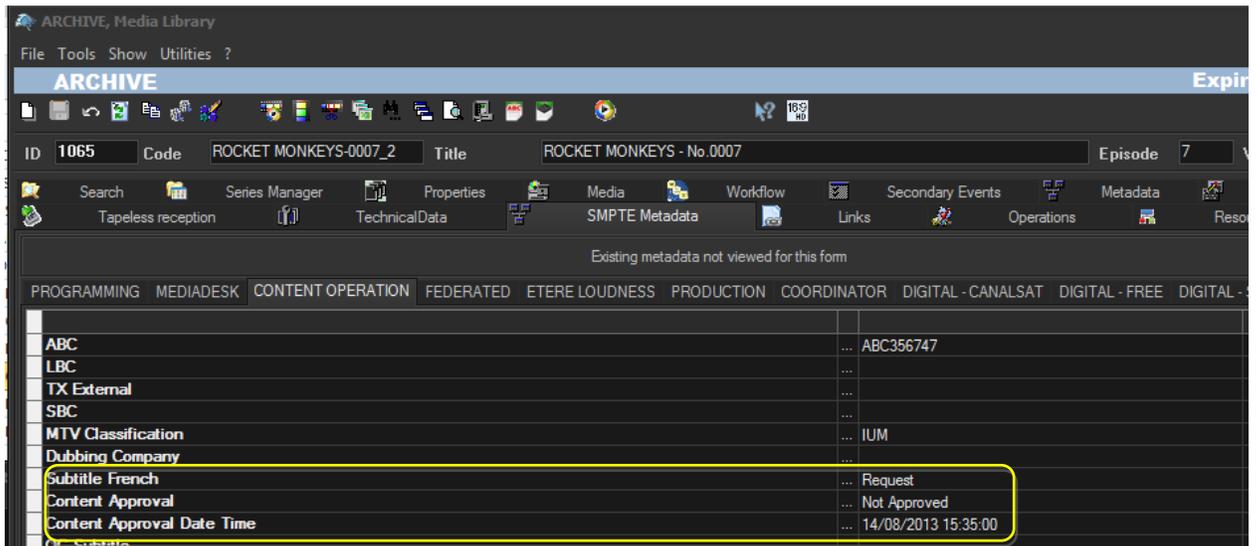
- **Asset operation logs:** All operations performed for asses (e.g. copy, transcode, edit, etc.) are logged under the “Operations” tab of the **Media Library**:



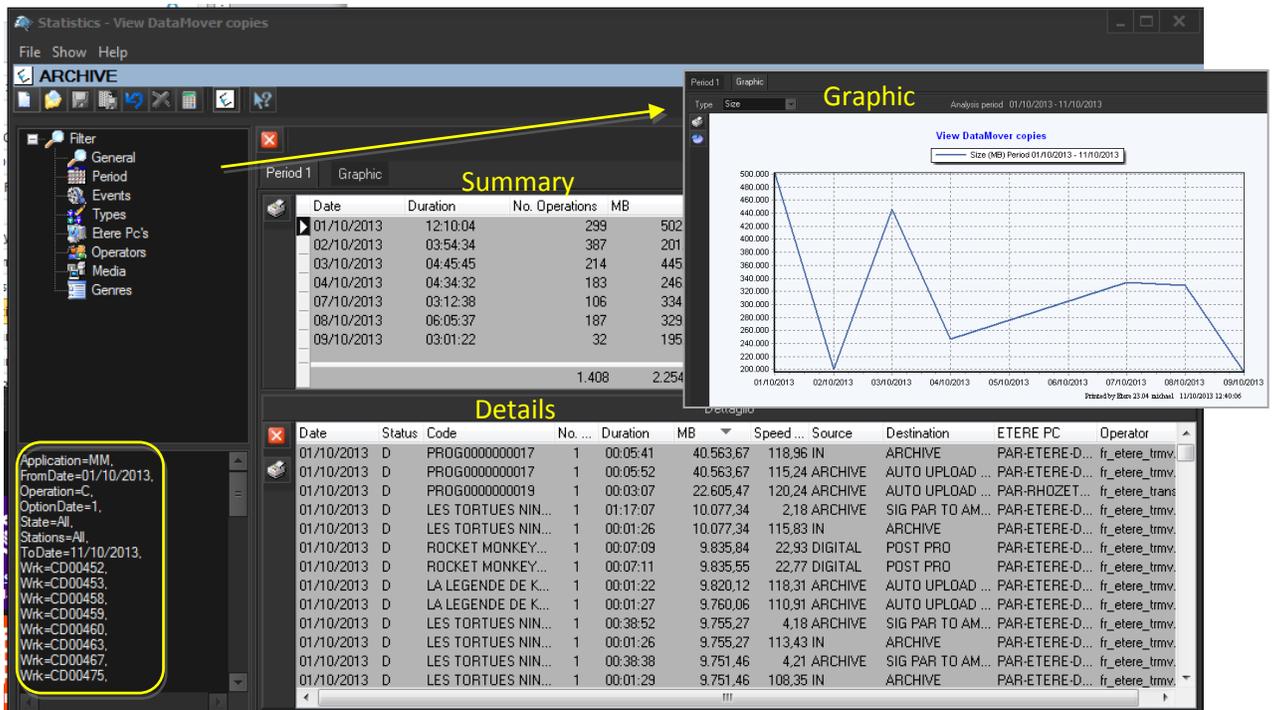
- **Workflow logs:** In the same way as for asset operations, all workflow operations are logged, they can be consulted under the “Workflow” tab of the **Media Library**:



- **SMPTE stored values:** Metadata automatically/manually compiled during the management of an asset can be consulted from the “SMPTE metadata” tab:



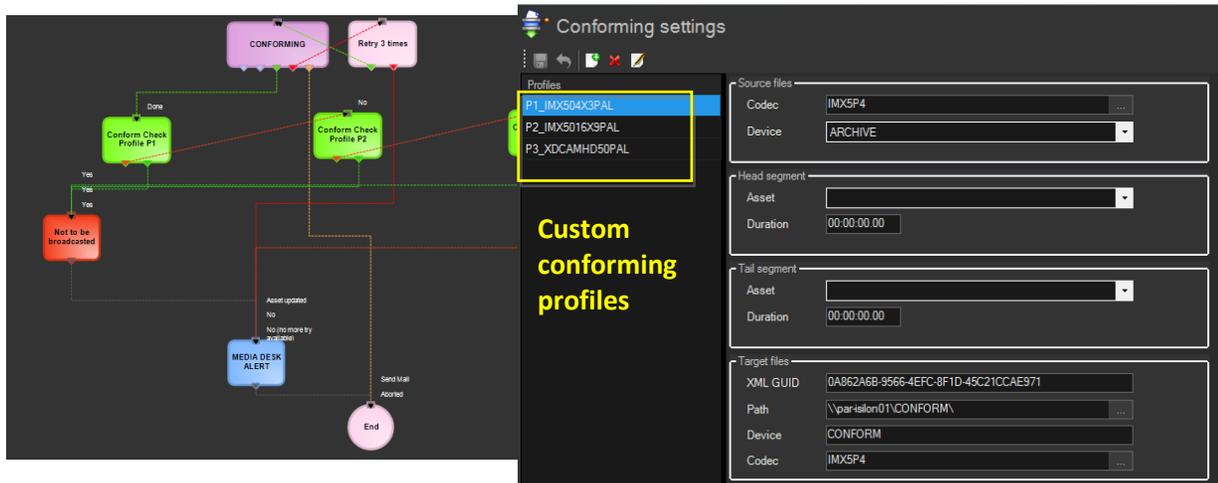
- **Statistics:** View statistics on a certain function (e.g. DataMover copies), detailed by period, events, type, computers, operators, media and genres:



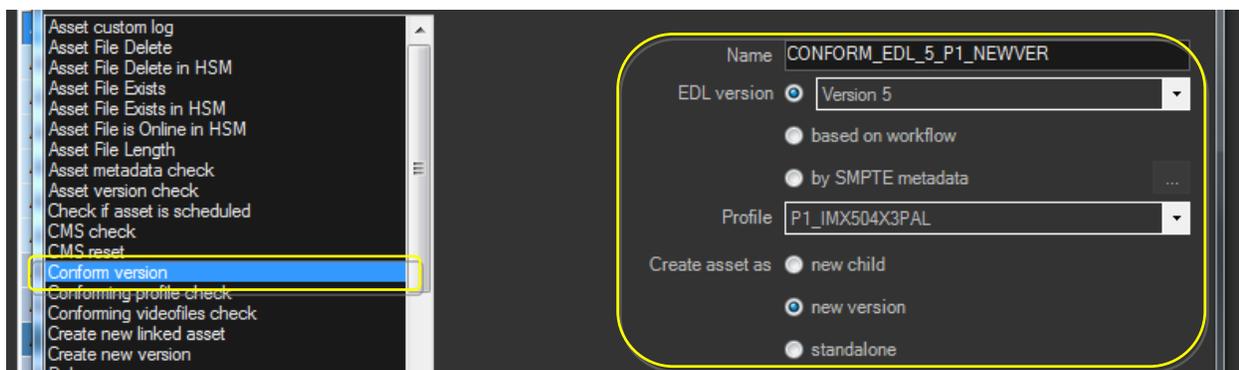
▼ 6.3.3.3.5 How do I choose which “version” of the soft-marking to export?

(Exporting specific soft-marking schemas)

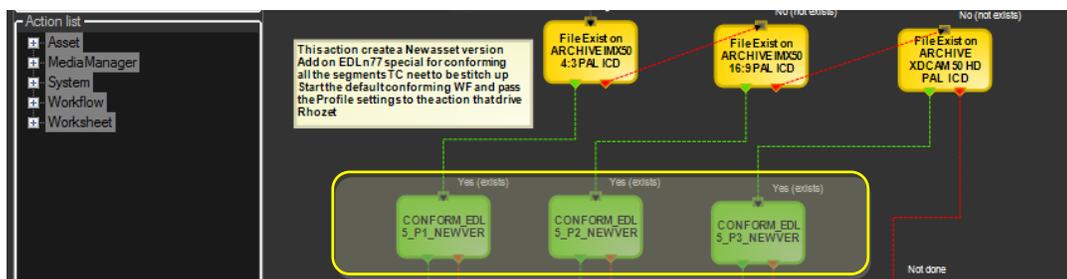
The **international master** will be marked up from the **Etere Media Library**, inserting technical parts (e.g. black cuts) and editorial content related parts (e.g. bumper, intro, outro, etc.) will be conformed according to custom **conforming profiles** including head and tail segments as well as dedicated transcoding presets:



Custom **conforming actions** can be created to conform a specific EDL schema using a given **conforming profile** on either a new asset child, asset version or standalone asset:



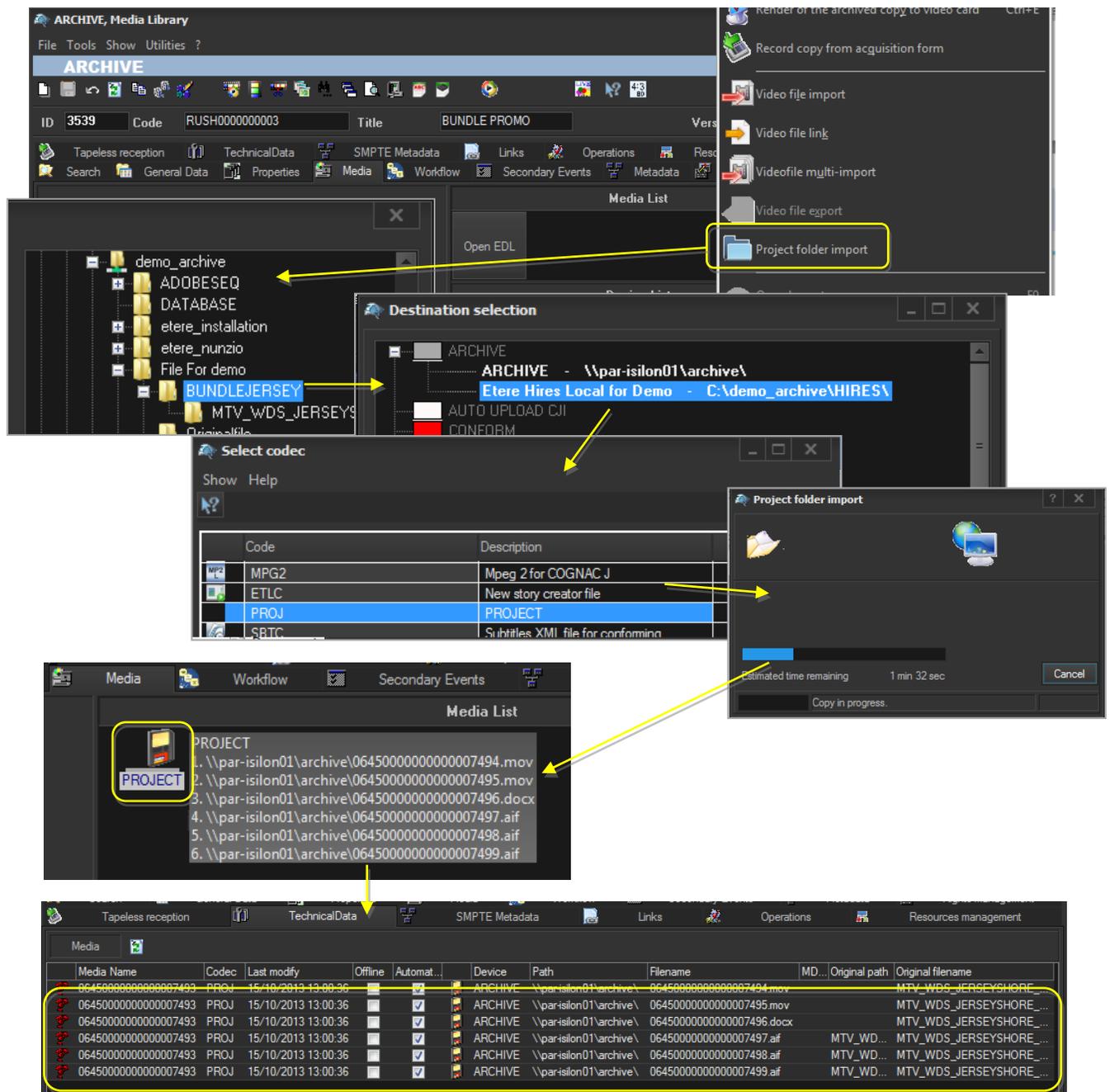
Once created, conforming actions can be included within workflows to execute the required tasks for which they have been configured:



▼ 6.3.3.3.6 Create/maintain the folder structure of complex assets on export

(Exporting entire projects)

The **Media Library** provides a "project folder import" function allows importing all files within a local/network directory into a metadvice using unique filenames and conserving their original information (path, sub-path and filename):



As shown above, multiple files belonging to a project can be loaded in the Etere system as a single metafile, keeping and moving all them together when requested:

External storage (source)				Etere archive (target)		
Original path	Original sub-path	Original filename		Target path	Target unique name	metafile
\\Projects\BundleJersey\		Script.docx	->	\\Archive\Hires\	0645000000000007443	0645000000000007442
\\Projects\BundleJersey\		Lowres.mov	->	\\Archive\Hires\	0645000000000007444	
\\Projects\BundleJersey\		Hires.mov	->	\\Archive\Hires\	0645000000000007445	
\\Projects\BundleJersey\	Audio	musix.aif	->	\\Archive\Hires\	0645000000000007446	
\\Projects\BundleJersey\	Audio	sfx.aif	->	\\Archive\Hires\	0645000000000007447	
\\Projects\BundleJersey\	Audio	sot.aif	->	\\Archive\Hires\	0645000000000007448	

Additionally, a key feature allows exporting projects restoring their original structure (i.e. path, sub-path, filename) using a “Multistep Copy DataMover” action:

Etere archive (target)				External storage (source)		
metafile	Target path	Target unique name		Original path	Original sub-path	Original filename
0645000000000007442	\\Archive\Hires\	0645000000000007443	->	\\Projects\BundleJersey\		Script.docx
	\\Archive\Hires\	0645000000000007444	->	\\Projects\BundleJersey\		Lowres.mov
	\\Archive\Hires\	0645000000000007445	->	\\Projects\BundleJersey\		Hires.mov
	\\Archive\Hires\	0645000000000007446	->	\\Projects\BundleJersey\	Audio	musix.aif
	\\Archive\Hires\	0645000000000007447	->	\\Projects\BundleJersey\	Audio	sfx.aif
	\\Archive\Hires\	0645000000000007448	->	\\Projects\BundleJersey\	Audio	sot.aif

A detailed **report** on all imported files can be generated at any time making right-click -under the Media tab- on the metafile and selecting the "Print Metafile Properties" function:

**Metafile properties**

Name 0645000000000007442  
 Codec PROJ - PROJECT  
 Device ARCHIVE

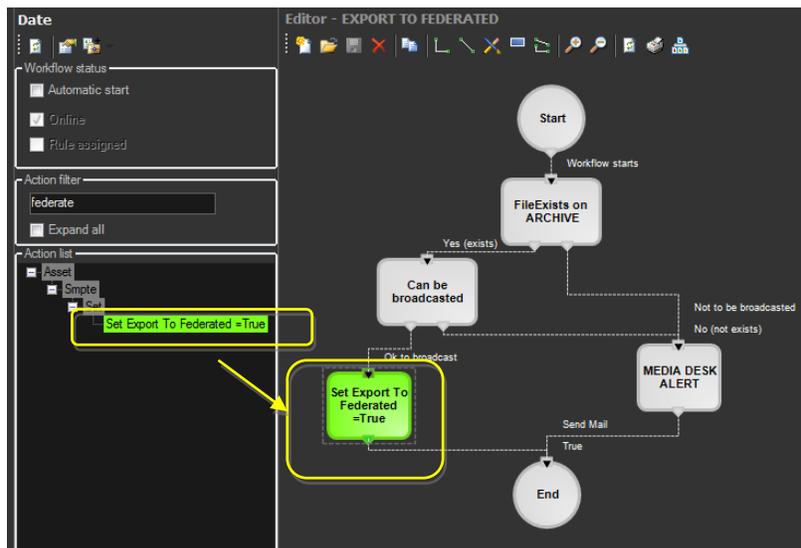
Path	Filename	Size	Original subpath	Original filename
C:\demo_archive\HIRE S\	0645000000000007443	16.1435 M b		MTV_WDS_JERSEYSHORE_S5_EP_502_15SEC_LOWRES.mov
C:\demo_archive\HIRE S\	0645000000000007444	110.715 M b		MTV_WDS_JERSEYSHORE_S5_EP_502_15SEC_PAL_CL_IMX.mov
C:\demo_archive\HIRE S\	0645000000000007445	11.71 Kb		MTV_WDS_JERSEYSHORE_S5_EP_502_15SEC_SCRIPT.docx
C:\demo_archive\HIRE S\	0645000000000007446	2.74982 M b	MTV_WDS_JERSEYSHORE_S5_EP_502_15SEC_AUDIO\	MTV_WDS_JERSEYSHORE_S5_EP_502_15SEC_MUSIC.aif
C:\demo_archive\HIRE S\	0645000000000007447	2.74982 M b	MTV_WDS_JERSEYSHORE_S5_EP_502_15SEC_AUDIO\	MTV_WDS_JERSEYSHORE_S5_EP_502_15SEC_SFX.aif
C:\demo_archive\HIRE S\	0645000000000007448	2.74982 M b	MTV_WDS_JERSEYSHORE_S5_EP_502_15SEC_AUDIO\	MTV_WDS_JERSEYSHORE_S5_EP_502_15SEC_SOT.aif

### ▼ 6.3.3.4 BPM AND SEARCH

#### ▼ 6.3.3.4.1 Demonstrate BPM engine (how to build workflows and implement business intelligence?)

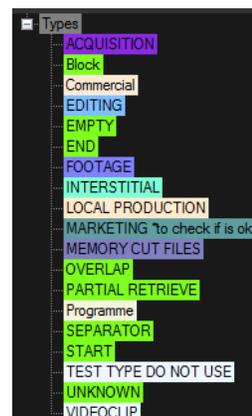
(Workflow management)

Etere provides a highly intuitive and user-friendly interface for the design and implementation of workflows, creating your own workflow is easy as dragging and dropping action blocks:

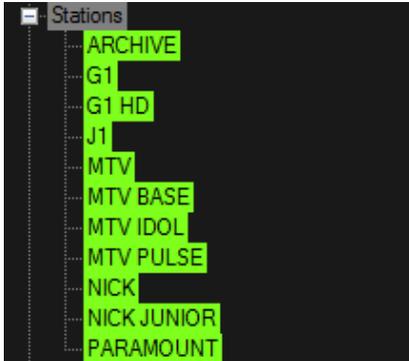


A wide number of action types are available to automate the “intelligent decision taking” of workflows, it’s possible to use, for instance:

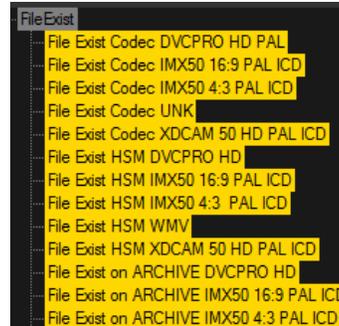
- Take an action based on **metadata**:
- Take an action based on **asset type**:



- Take an action based on **enabled station**:

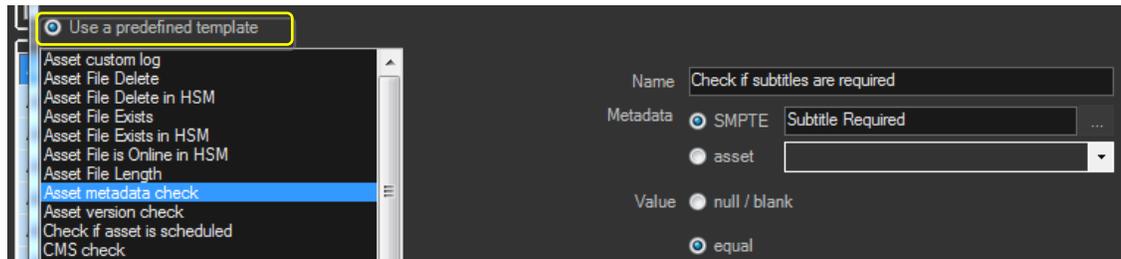


- Take an action based on **storage metadvice**:



Besides to the several actions provided by default, users can create a wide number of custom actions to meet their actual needs; new actions can be created as:

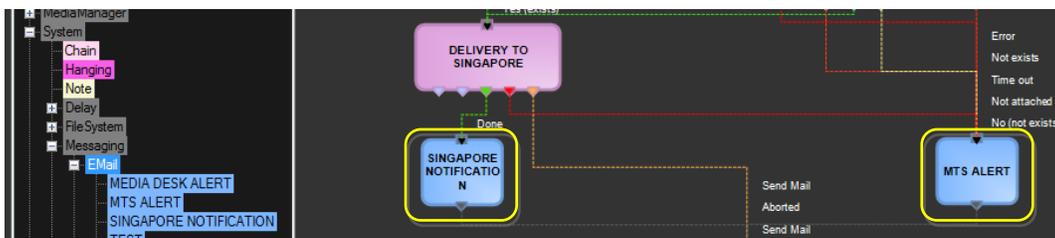
- **DataMover**: Actions created for copying, transcoding, Baton integration, Signiant integration and MTX.
- **Content management**: Actions created for media check, retrieve and regeneration purposes.
- **Template-based**: Actions created based on of the 60 different templates available in the system:



### ▼ 6.3.3.4.2 What are the notification levels (e.g. informing users order is ready, asset has arrived, etc.)?

#### (Notification capabilities)

The workflow framework of Etere allows including so many notification actions as required by a workflow, notifications are customized for specific receivers (e.g. MediaDesk, MTS, etc.) and purposes (media is ready, media is arrived, media error, etc.):



▼ 6.3.3.4.3 How can I track the progress of the workflow?

(Workflow monitoring)

The **Etere's Monitoring Console** gives administrator a valuable tool, a **robust dashboard** for monitoring the status of workflows and directly controlling their execution (e.g. restart failed workflows, abort unwanted instances, etc.). This interface provides useful filters (e.g. workflow, object, status) to list only workflows you are interested to see and a wide set of functions to manage their execution (e.g. show workflow, view log, abort workflow, restart workflow, delete workflow, set priority, clean orphan workflows, etc.):

The screenshot displays the Monitoring Console interface, which is divided into several panels:

- Master Panel:** A table listing workflows. The selected row is:
 

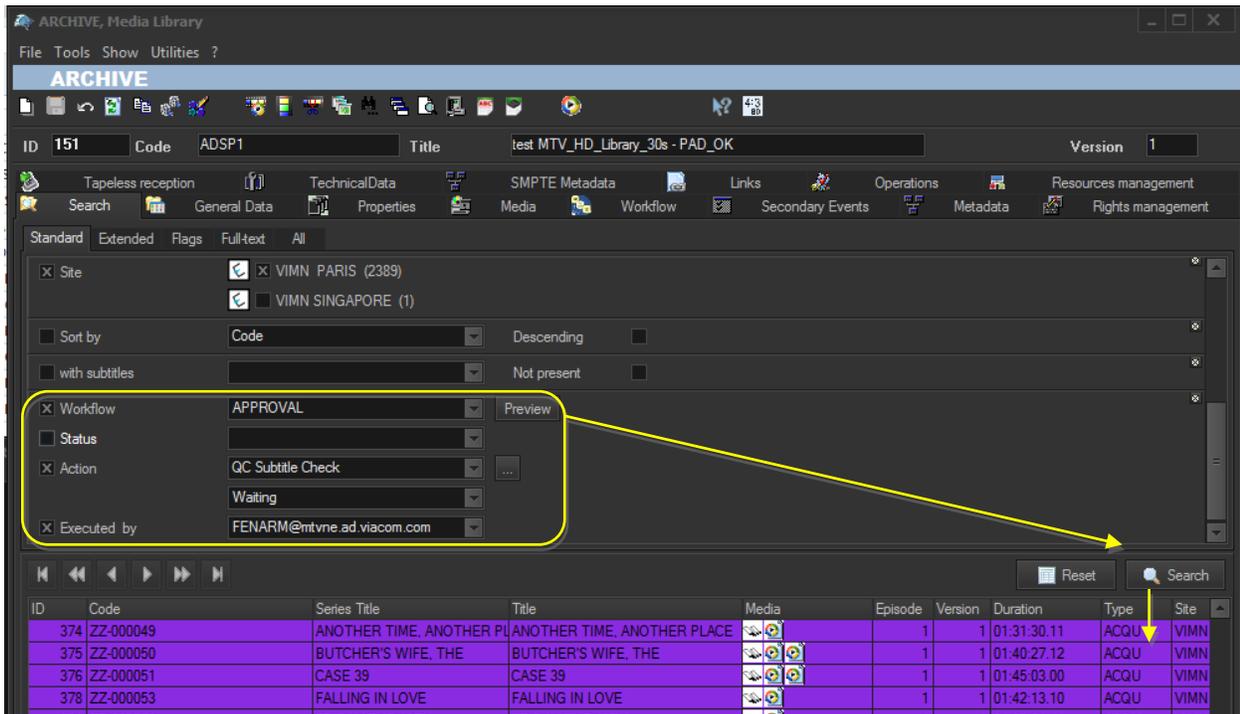
Workflow	Object	Status	Count
APPROVAL	Asset	Workflow active	107
APPROVAL	Asset	Workflow complete	647
APPROVAL	Asset	Workflow not started	8
APPROVAL PROMO	Asset	Workflow active	2
APPROVAL PROMO	Asset	Workflow complete	71
APPROVAL PROMO	Asset	Workflow not started	1
ARCHIVE	Asset	Workflow active	20
ARCHIVE	Asset	Workflow complete	634
ARCHIVE	Asset	Workflow not started	8
- Details Panel:** Shows details for the selected workflow (APPROVAL, Asset, Running). It includes a table of instances:
 

Object type	Object ID	Object code	Object description	Workflow	Workflow status	Deadline	Priority	Action	Action status	Creation date
Asset	16	XXX-0006	Test SUBTITLE	APPROVAL	Workflow active			Content Approval ...	Waiting	16/07/2013 13:12:00
Asset	3088	XXXXXXXXXXXX0084	TEST EDL 4	APPROVAL	Workflow active			Content Approval ...	Waiting	02/10/2013 10:59:23
Asset	1194	ZZZZ10	TEST HERO CO...	APPROVAL	Workflow active			Content Approval ...	Waiting	26/08/2013 12:43:37
Asset	1482	EVERYTHING PO...	EVERYTHING P...	APPROVAL	Workflow active			Editorial Approval ...	Waiting	09/10/2013 10:51:53
Asset	2413	THAT 70S SHOW...	THAT 70S SHO...	APPROVAL	Workflow active			Editorial Approval ...	Waiting	24/09/2013 14:35:49
Asset	1483	EVERYTHING PO...	EVERYTHING P...	APPROVAL	Workflow active			Editorial Approval ...	Waiting	09/10/2013 10:51:41
Asset	2412	THAT 70S SHOW...	THAT 70S SH...	APPROVAL	Workflow active			Editorial Approval ...	Waiting	24/09/2013 14:35:44
Asset	2452	EVERYTHING PO...	EVERYTHING	APPROVAL	Workflow active			Editorial Approval ...	Waiting	09/10/2013 10:51:41
Asset	2450	EVERYTHING PO...	EVERYTHING	APPROVAL	Workflow active			Editorial Approval ...	Waiting	09/10/2013 10:51:41
- Workflow log:** A table showing the execution history for the selected workflow instance:
 

ID log	Date	Action	Category	Status
195448	16/07/2013 13:1...	Content Approval...	Worksheet	Action just activa...
195447	16/07/2013 13:1...	Content Approval...	Worksheet	Action just activa...
195446	16/07/2013 13:1...	Content Approval...	Worksheet	Action just activa...
195445	16/07/2013 13:1...	Start	System	Workflow starts
195444	16/07/2013 13:1...	Start	System	Action just activa...
195443	16/07/2013 13:1...	Start	System	Action just activa...
25754	04/07/2013 15:5...	Set Production A...	Asset	Set current time
25753	04/07/2013 15:5...	Set Production A...	Asset	Action just activa...
25752	04/07/2013 15:5...	Set Production A...	Asset	Action just activa...
25751	04/07/2013 15:5...	Production Appro...	Worksheet	Approved
25750	04/07/2013 15:5...	Production Appro...	Worksheet	Action just activa...
25748	04/07/2013 15:5...	Production Appro...	Worksheet	Action just activa...
- Workflow Instance Active:** A flowchart showing the current state of the workflow instance, which is 'Content Approval Check'. The flowchart includes steps like 'LOCAL PRODUCTION', 'INTERSTITIAL', 'Check Subtitle', and 'CC Subtitle Check'.

As shown in the image above, accessing the operations log and sequential flow of all “approval” workflows which are currently waiting for a “content approval” is an easy task.

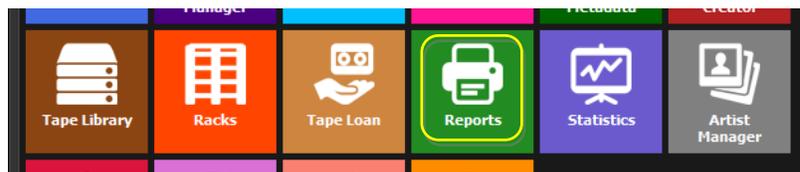
Moreover, workflow monitoring is also possible from the “Media Library”, where a special filter allows searching for assets matching specific workflow information (e.g. instance, status, action, executor, etc.):



### ▼ 6.3.3.4.4 How can I run reports on an asset or group of assets?

(Reporting services)

Etere Reporting Services provides an intuitive report environment to enable users to have an enterprise reporting environment enhanced with an unlimited number of custom reports; it permits reports to be easily designed and accurately managed through a reporting engine that allows to preview, print and export any report under a user-friendly user interface. Etere Reporting Services integrates a dedicated reports database with the main system database, thus improving the reliability and performance of the system:



Available reports cover all the spectrum of the broadcasting process (assets, orders, events, schedules, etc.) providing, for instance, the following asset-related reports:

Media library operations (resource manager):

ARCHIVE		Media library logs [Resources manager]						
Media library logs [Resources manager]								
ZZ-000069 - ZOOLANDER								
Date	Workflow	Action	Result	Machine	Operator	Notes	Certified	Pwd
20/08/2013 3:40:08 PM	INGEST	IMPORT FILE MEDIADESK (451)	DONE	CD 00504	gaucherp@mtvne.ad.viacom.com		Yes	No
20/08/2013 6:52:18 PM	MANAGING	ADDRESSING JOB (227)	Subtitling	CD 00488	harangeb@mtvne.ad.viacom.com		Yes	No
22/08/2013 12:56:46 PM	MANAGING	PROXY WITH TC NEEDED? (230)	No Not Needed	CD 00467	fenarm@mtvne.ad.viacom.com		Yes	No
2/09/2013 6:12:00 PM	MANAGING	IMPORT SUBTITLE (234)	Done	CD 00467	fenarm@mtvne.ad.viacom.com		Yes	No
10/10/2013 2:32:10 PM	MANAGING	QC Subtitle Check (288)	Passed	MICHAELW7	michael@italy.eter.com		Yes	No
10/10/2013 2:36:47 PM	APPROVAL	Content Approval Check (287)	Approved	MICHAELW7	michael@italy.eter.com		Yes	No
10/10/2013 2:40:02 PM	APPROVAL	Editorial Approval Paramount	Approved	MICHAELW7	michael@italy.eter.com		Yes	No

Devices used space:

ARCHIVE		Devices used space	
Devices used space			
Device	ARCHIVE		
Types	All		
stations	ARCHIVE		
Device	Type	Used space	
ARCHIVE	ACQU ACQUISITION	54:22:44.07	
	ADSP Commercial	0:00:00.01	
	RUSH FOOTAGE	0:00:00.01	
	INT INTERSTITIAL	0:10:58.13	
	LOPD LOCAL PRODUCTION	29:57:32.24	
	PRT PARTIAL RETRIEVE	0:02:00.01	
	PROG Programme	86:15:33.10	
	TEST TEST TYPE DO NOT USE	0:03:01.10	
	CLIP VIDEOCLIP	1:17:16.24	
	<b>Total</b>		<b>172:09:07.16</b>
<b>Total</b>		<b>172:09:07.16</b>	

Media data logs:

ARCHIVE		Media library logs					
Asset:	ID 394	Code	ZZ-000069	Type	ACQU		
Date	Status	Operation	Machine	Operator	Process	Application	
30/07/2013 18:1...	Done	Create asset	CL00922	VMIRE@...	Import Asset Louise CSV	Asset form	
30/07/2013 18:1...	Done	Edit	CL00922	VMIRE@...	Import Asset Louise CSV	Import	
30/07/2013 18:2...	Done	Edit	CL00922	VMIRE@...	ASSET MANAGER	Asset form	
06/08/2013 15:0...	Done	Edit	CD00458	rigga@ntv...	ASSET MANAGER	Asset form	
19/08/2013 12:0...	Done	Archive	WEB CLIENT		Etere Web		
19/08/2013 12:1...	Done	Delete	PAR-ETERE...	fr_eter_e...	DELETING	Recording	
19/08/2013 12:5...	Done	Archive	WEB CLIENT		Etere Web		
20/08/2013 15:4...	Done	Generic opera...	CD00504	gaucherp...	[Workflow]: INGEST [Action]:...	Workflow	
20/08/2013 15:4...	Done	Coov	PAR-INGEST	fr_eter_e...	FILE INFOIN	Media Manager	

▪ Loudness:

ARCHIVE		Loudness	
Loudness: All			
Code	Description	Duration	Loudness
Prefix20130611su...	test ROCKET MONKEYS - No.0001	0022:00,01	
Prefix20130612su...	test ROCKET MONKEYS - No.0002	0026:13,00	-22,98
ROCKET MONKEY	ROCKET MONKEYS - No.0001	0022:30,00	-22,76

Etere Reporting Services is based on SQL Server Reporting Services technology to leverage all key features of a web-based reporting server focused on simplifying the process of creating and editing reports by including a user-friendly interface, modify existing reports, interactive reports, presentation formats and much more.

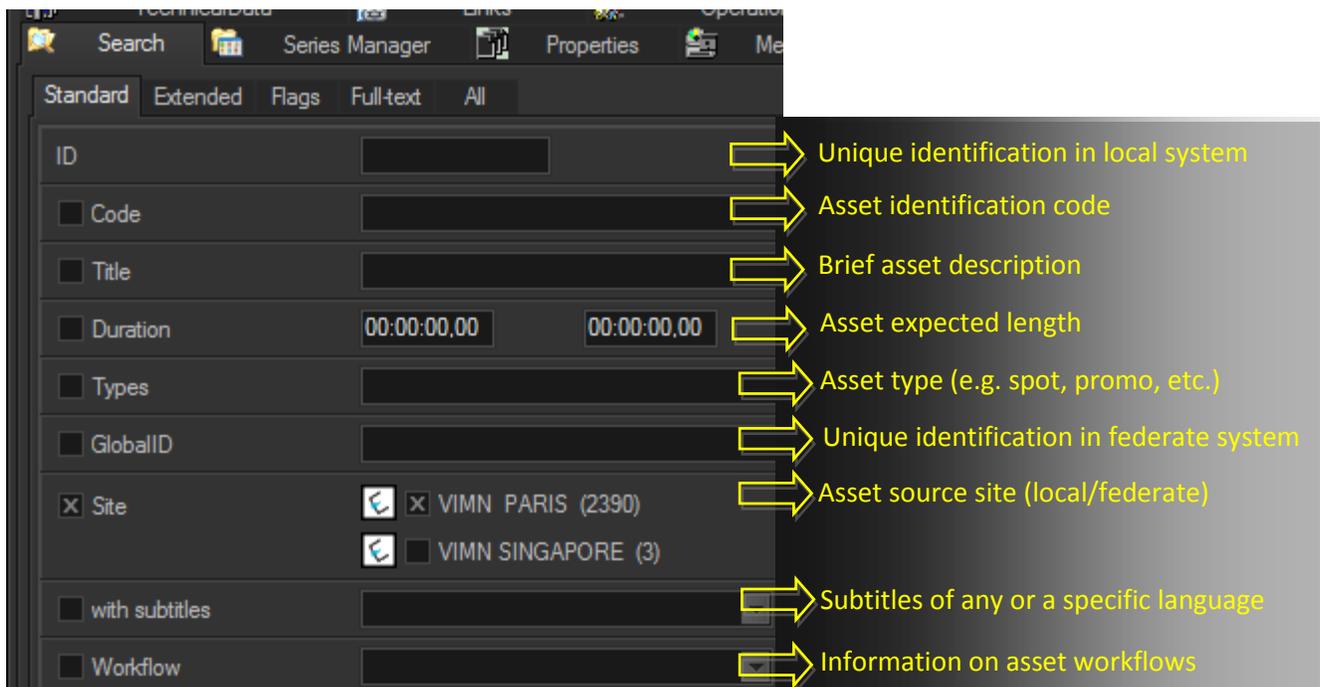
▼ 6.3.3.4.5 Demonstrate search functionality and advanced searches

(Search engine)

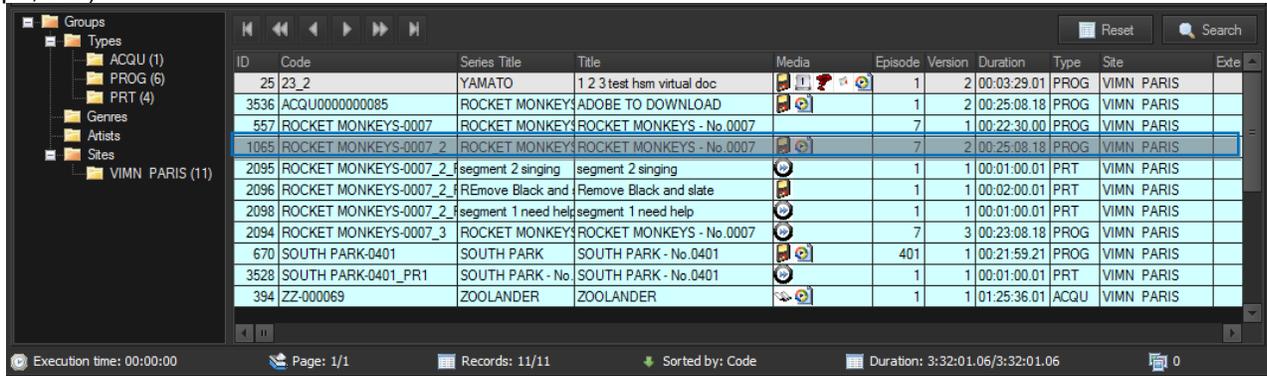
Etere comes with a complete, versatile and powerful search engine which allows users to search for assets and interact with them. The user is able to search assets based on their information stored in the database. Among the several searching features which are available in this section, we can mention the following ones:

- Search for assets based on database fields,
- A Full-text search across various fields of assets,
- Full-text results are sorted on degree of relevance,
- Search for synonyms to extend the range of results,
- Searches can be saved as profiles,
- Batch management of several assets at once,
- Customizable tabs and fields, drag & drop enabled,
- Results can be grouped by types, genres or artists,
- Add, launch and view workflows on-the-fly,
- Filter results by SMPTE metadata or Metadvice.

Some of the most common filters used for searching assets are:



Assets matching the filters criteria are retrieved in the bottom part of the window, there, they can be selected (or multi-selected) in order to open or directly manage them (launch workflow, add to series, create backup, change type, etc.):



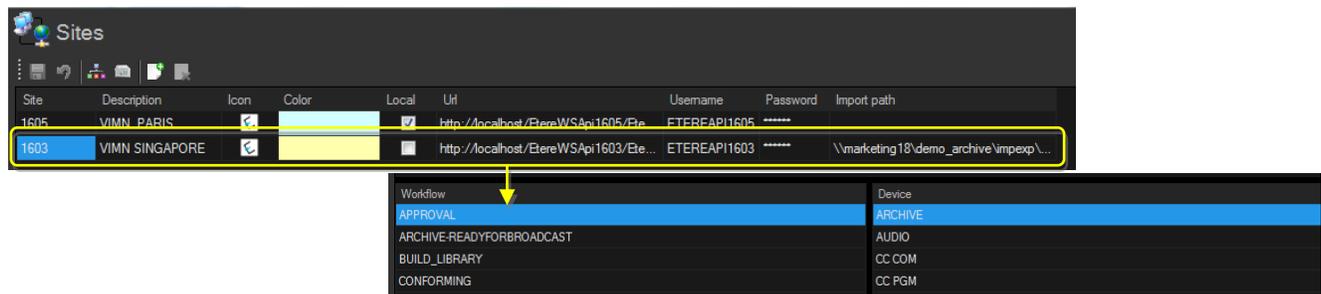
Filters can be classified according to their nature into the following categories:

<b>Base</b>	Base descriptions about the asset: <b>Id, code, title, type, stations, sites, genre, artist, etc</b>
<b>Media</b>	Media information regarding devices, files and processes: <b>Duration, metadvice, codec, video file, workflows, worksheets, etc</b>
<b>Dates</b>	Dates on which specific asset operations have been performed: <b>Production, ingest, creation, arrival, scheduling, validity start, expiry, etc</b>
<b>Flags</b>	Flags detailing specific asset properties: <b>OK to broadcast, live, expired, ingested, archived, inactive, not tapeless, etc</b>
<b>With</b>	Properties that indicates the existence of a certain object associated to the asset: <b>Edl, video tape, data tape, subtitles, cad approval, detected blacks, etc</b>
<b>Full-text</b>	Special search performed simultaneously performed across multiple tables: <b>Title, segments, artists, genres, roles, metadata, subtitles, documents, etc</b>

▼ 6.3.3.4.6 How do integrations with other tools look ie if I am doing a federated search how are the results displayed?

(Federate search results)

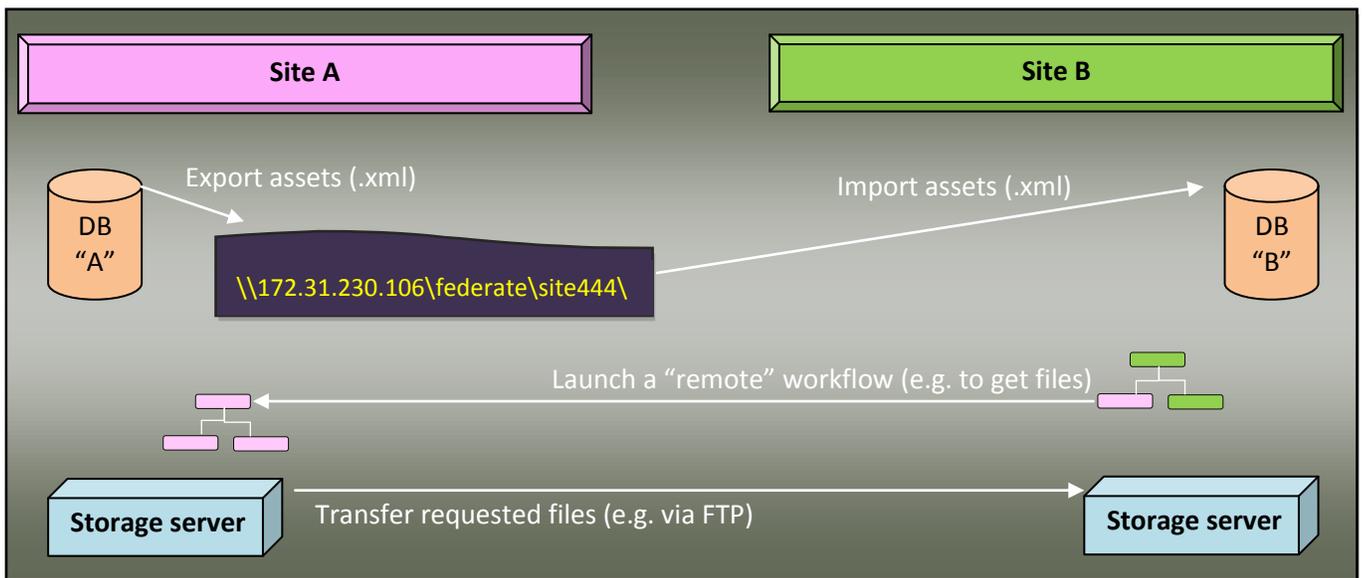
Etere’s federated capabilities will permit the station to take full advantage of federated technologies, allowing them to import/export assets between systems such in a way that it will be possible to manage external assets as local ones. Federate sites are interfaced through a web service locally installed; it will allow other sites to remotely manage its assets, workflows and metadvice:



The federate nature of the system will allow remote sites to search for content in the central system (and vice versa), highlighting assets according to their source installation and once retrieved, they can be managed as local assets for almost all intents and purposes (i.e. consultation, workflows, etc.):

ID	Code	Series Title	Title	Media	Episode	Version	Duration	Type	Site
3529	22	PROG NICK	PROG NICK		1	1	00:05:41.00	PROG	VIMN SINGAPORE
2476	ASIA ALARM-0004	ASIA ALARM - SAIS	ASIA ALARM - SAISON 1		4	1	00:26:00.00	PROG	VIMN PARIS
2475	ASIA ALARM-0003	ASIA ALARM - SAIS	ASIA ALARM - SAISON 1		3	1	00:26:00.00	PROG	VIMN PARIS
2474	ASIA ALARM-0002	ASIA ALARM - SAIS	ASIA ALARM - SAISON 1		2	1	00:26:00.00	PROG	VIMN PARIS
1265	ASIA ALARM-0001	ASIA ALARM - SAIS	ASIA ALARM SAISON 1 - No.0001		1	1	00:26:00.00	PROG	VIMN PARIS
2661	ASIA ALARM - SAISON 2-0020	ASIA ALARM - SAIS	ASIA ALARM - SAISON 2 - No.002		20	1	00:01:46.21	PROG	VIMN PARIS
2660	ASIA ALARM - SAISON 2-0019	ASIA ALARM - SAIS	ASIA ALARM - SAISON 2 - No.001		19	1	00:01:46.21	PROG	VIMN PARIS

Federate assets can be managed through federate workflows and import/export functions. Data managed between federate sites can be easily transferred between them:



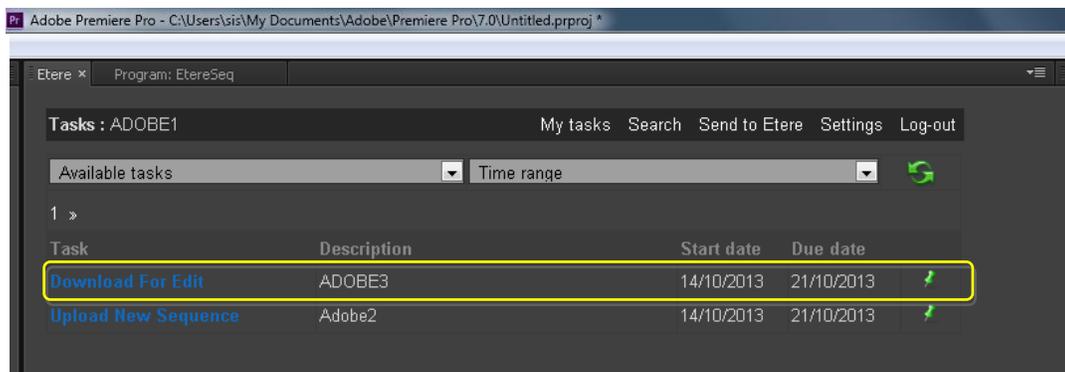
▼ 6.3.3.5 EDITING

▼ 6.3.3.5.1 Demonstrate proxy editing, EDL or integration with editing to support remote compliance or localization

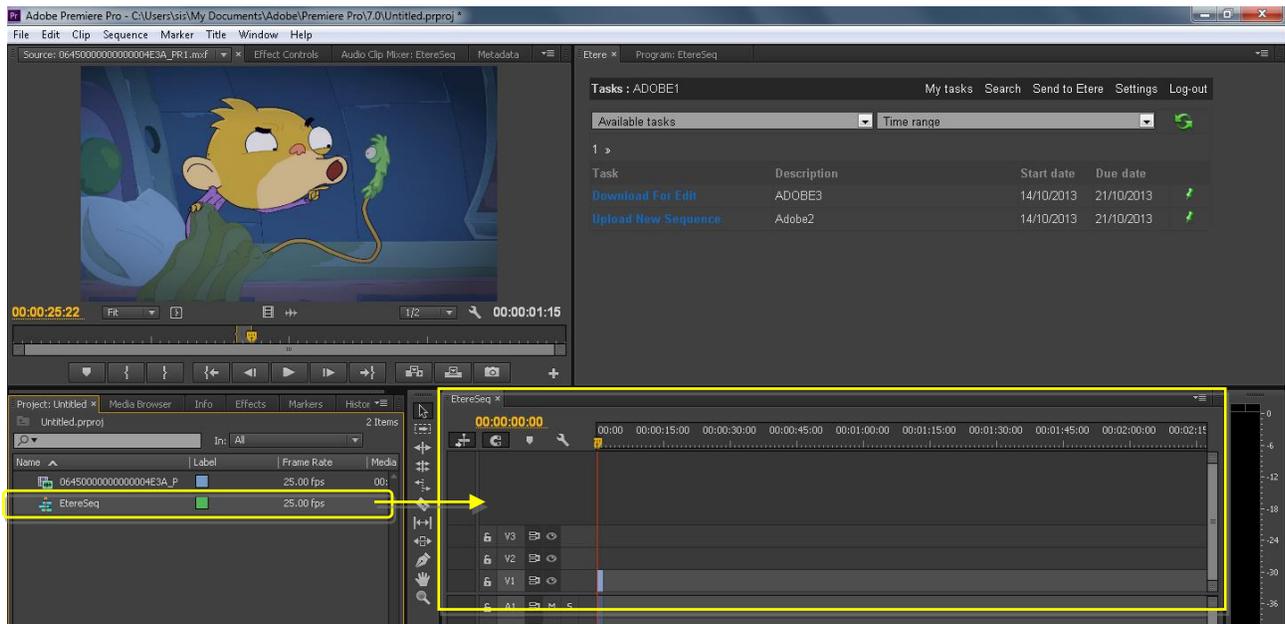
(Adobe integration)

Compliance operations for **international content** performed inside VIMN using **Adobe Premiere® Pro** will be integrated into **Etere MAM**, empowering **authenticated users** to interactively run faster video editing from the Etere archive across virtually any network.

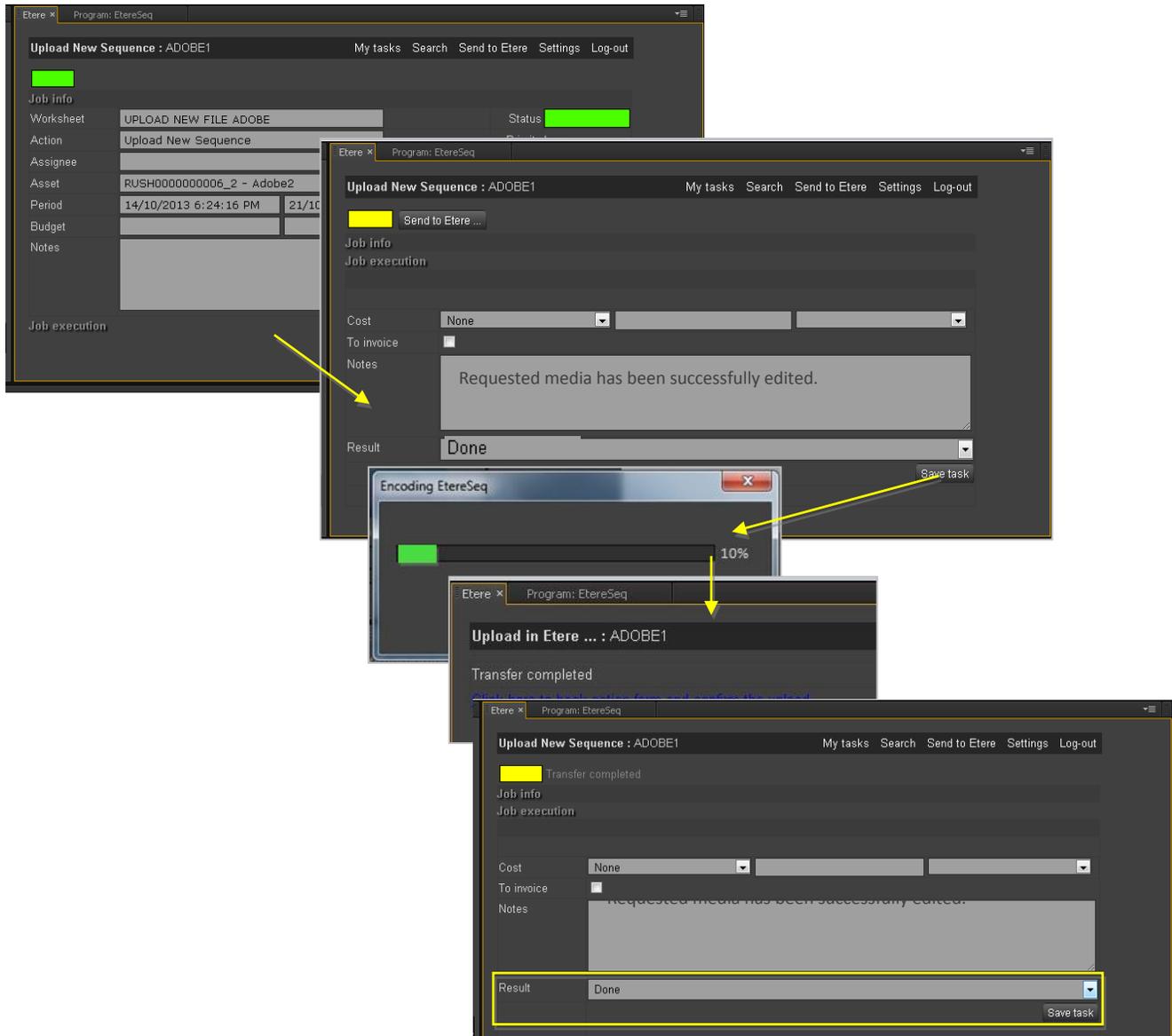
Our Adobe Premiere extension will give **Editing operators** with a user-friendly interface to view their assigned tasks, select and take the one to be performed:



Media related to taken tasks will be imported into adobe Premiere:



Once editing is finished, final media will be automatically rendered based on a preset **EPR profile** (e.g. DV25 MOV 4 Tracks), then, it will be uploaded into the Etere archive:



Once media is uploaded into the archive the task is set as completed and the workflow continue its execution (e.g. notifying availability of the edited version and starting a QC).

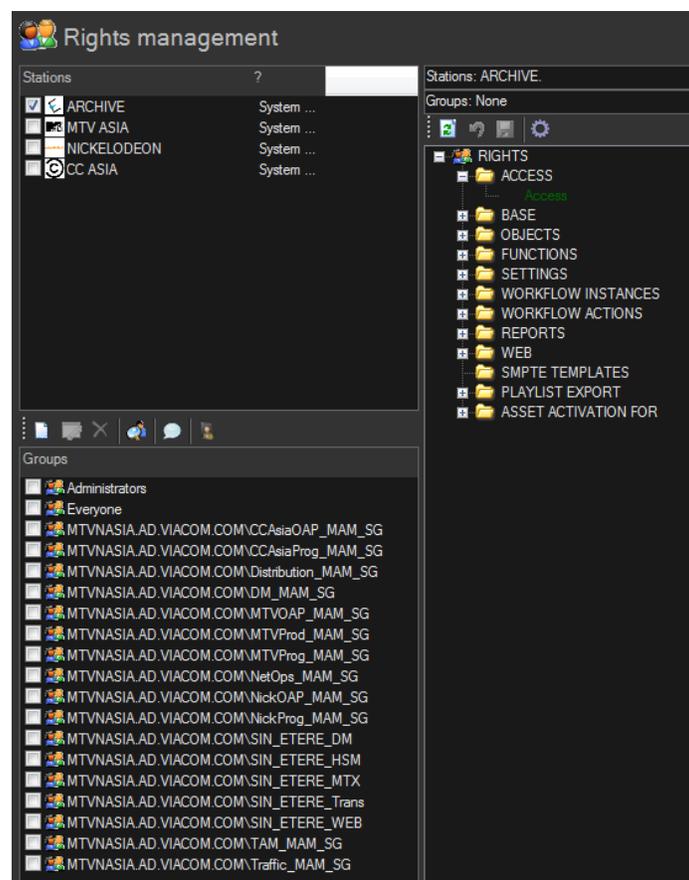
It's worth mentioning that asset versions uploaded during editing process will be managed using the Etere's versioning standard, maintaining a parent-child relationship with the master.

## ▼ 6.3.3.6 ADMIN

### ▼ 6.3.3.6.1 Demonstrate security features – restricted views for vendors, inheritance through content hierarchies, user groups, asset collections

(Security management)

Etere provides stations with a “**Rights Management**” interface to control and track access to its various modules and functions, with it, stations will be able to freely assign (grant or deny) access to specific user groups (i.e. roles to which one or more users belongs to), thus allowing to set different mixtures of access levels for each group.



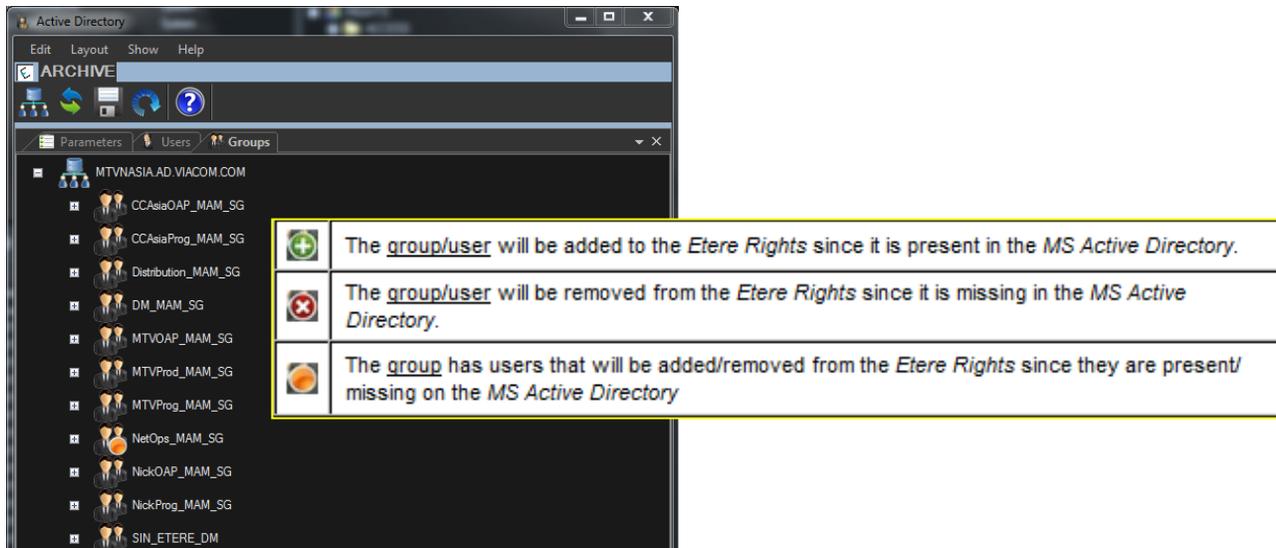
Etere allows managing different –and fully customizable– access levels for users which form part of the system, with Etere; set specific access rights not only for different users, but also for different stations.

It's worth mentioning that when a new version is created of a placeholder, said version will have the same type (e.g. clip) as the original asset, thus inheriting the restrictions active for it.

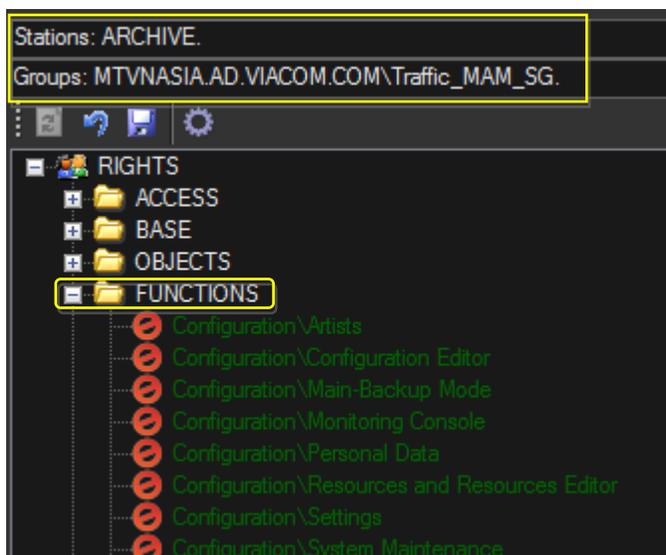
▼ 6.3.3.6.2 Demonstrate permission levels, how do I set them

(Permission levels)

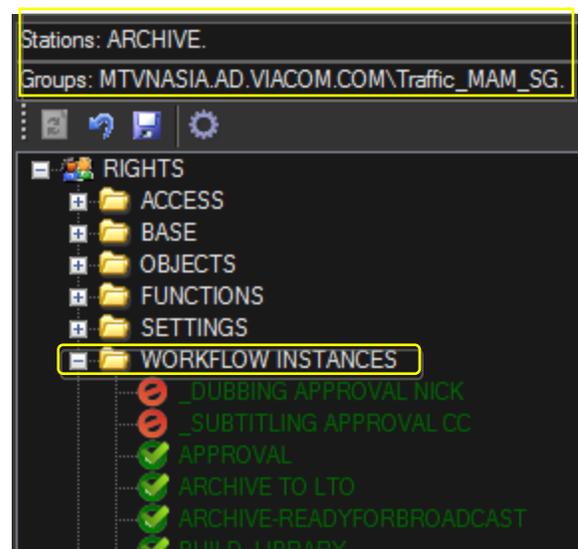
Etere allows creating a new rights structure importing groups and users from your organization's **MS Active Directory**. All groups and users present in the Etere Rights structure can be displayed, allowing to update the Etere Rights structure by synchronizing it against the MS Active Directory. Groups and users will be displayed with a status icon:



All features provided by Etere (e.g. functions, workflows, stations, etc.) falls under different categories according to their, the availability of these functions is determined by the “Rights Management Tool”, where rights are set for *specific groups* of users:



(deny configuration capabilities)



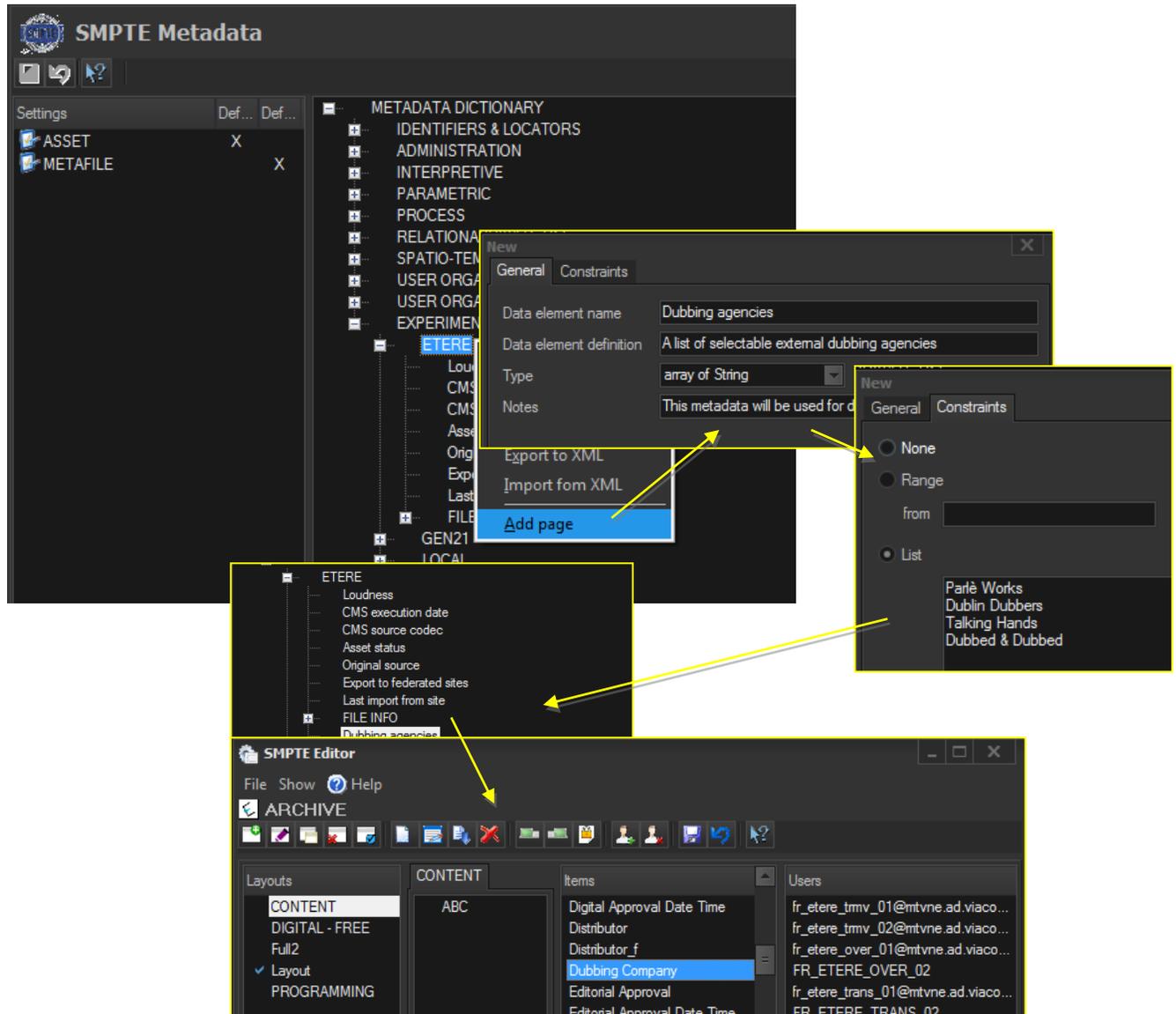
(grant execution of specific workflows)

▼ 6.3.3.6.3 Demonstrate how VIMN administrators are self-sufficient e.g. adding new language to system, new metadata fields, create reports, etc.

(Configuration and monitoring)

Administrators (i.e. users granted with a “system admin” right) are able to configure and modify all elements that compose the system. For instance, they are able to:

- Add metadata:



- Add languages:

The screenshot shows the 'Languages' management interface. On the left, a list of languages is displayed with checkboxes. On the right, a detailed view for 'Spanish (Mexico)' is shown, including its LCID (2058) and associated dictionary files. A yellow box highlights the 'Spanish (Mexico)' entry in the list and its corresponding details in the right-hand pane.

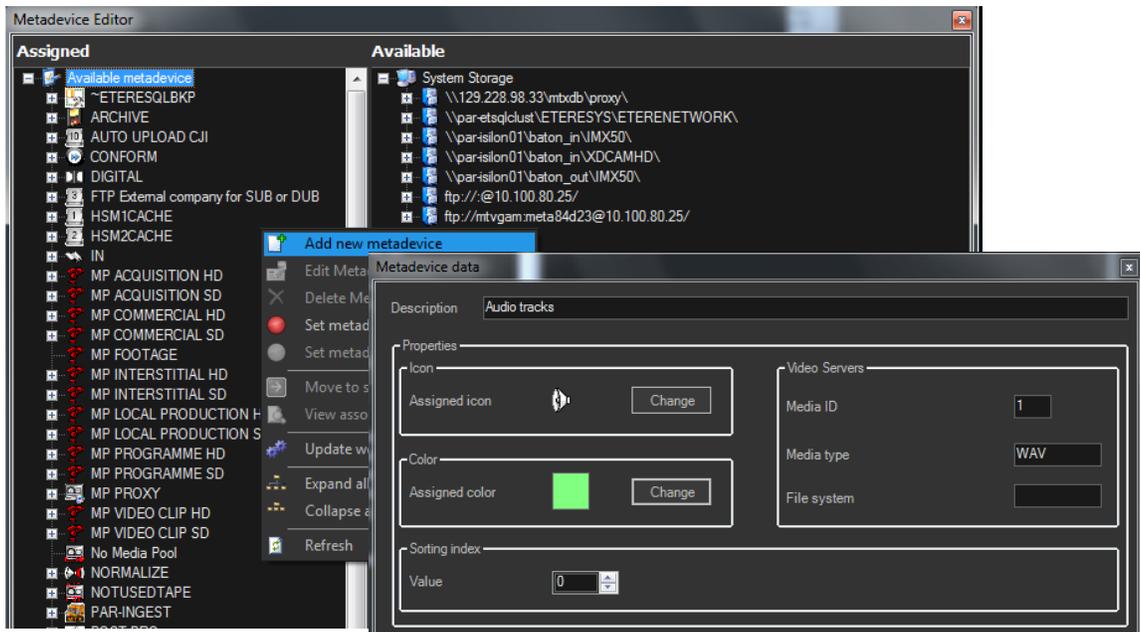
Language Description	Language	LCID	Dictionary (words)	Dictionary (rules)
<input type="checkbox"/> Slovak (Slovakia)	sloven	1053	Dictionary_sl_dic	Dictionary_sl_aff
<input type="checkbox"/> Slovenian (Slovenia)	sloven	1054	Dictionary_sl_dic	Dictionary_sl_aff
<input type="checkbox"/> Spanish (Argentina)	Español (Argentina)	1067	Dictionary_es_AR_dic	Dictionary_es_AR_aff
<input type="checkbox"/> Spanish (Bolivia)	Español (Bolivia)	1068	Dictionary_es_BO_dic	Dictionary_es_BO_aff
<input type="checkbox"/> Spanish (Chile)	Español (Chile)	1069	Dictionary_es_CL_dic	Dictionary_es_CL_aff
<input type="checkbox"/> Spanish (Colombia)	Español (Colombia)	1070	Dictionary_es_CO_dic	Dictionary_es_CO_aff
<input type="checkbox"/> Spanish (Costa Rica)	Español (Costa Rica)	1071	Dictionary_es_CR_dic	Dictionary_es_CR_aff
<input type="checkbox"/> Spanish (Dominican Republic)	Español (República Dominicana)	1072	Dictionary_es_DO_dic	Dictionary_es_DO_aff
<input type="checkbox"/> Spanish (Ecuador)	Español (Ecuador)	1073	Dictionary_es_EC_dic	Dictionary_es_EC_aff
<input type="checkbox"/> Spanish (El Salvador)	Español (El Salvador)	1074	Dictionary_es_SV_dic	Dictionary_es_SV_aff
<input type="checkbox"/> Spanish (Guatemala)	Español (Guatemala)	4106	Dictionary_es_GT_dic	Dictionary_es_GT_aff
<input type="checkbox"/> Spanish (Honduras)	Español (Honduras)	18442	Dictionary_es_HN_dic	Dictionary_es_HN_aff
<input checked="" type="checkbox"/> Spanish (Mexico)	Español (México)	2058	Dictionary_es_MX_dic	Dictionary_es_MX_aff
<input type="checkbox"/> Spanish (Nicaragua)	Español (Nicaragua)	19466	Dictionary_es_NI_dic	Dictionary_es_NI_aff
<input type="checkbox"/> Spanish (Panama)	Español (Panamá)	6154	Dictionary_es_PA_dic	Dictionary_es_PA_aff
<input type="checkbox"/> Spanish (Paraguay)	Español (Paraguay)	15370	Dictionary_es_PY_dic	Dictionary_es_PY_aff

- Consult reports:

The screenshot shows the 'Reports' section of the application. A report titled 'Tasks summary by executor' is displayed, showing the results of 'QC Subtitle Check' tasks performed by various executors. The report includes columns for Executor, Status, Action, Average duration, Result, and Count.

Executor	Status	Action	Average duration	Result	Count
CONTENT OPERATION	To do	QC Subtitle Check			2
	Total		12:00:00 AM		2
goepfs@mtvne.ad.viacom.com	Done	QC Subtitle Check	12:27:00 AM	Passed	3
		QC Subtitle Check	12:20:00 AM	Passed	1
	Total		12:25:00 AM		4
	Total		12:25:00 AM		4
harango@mtvne.ad.viacom.com	Done	QC Subtitle Check	12:34:00 AM	Passed	7
	Total		12:34:00 AM		7
michael@italy.etere.com	Done	QC Subtitle Check	12:34:00 AM	Passed	1
	Total		12:34:00 AM		1
	Total		12:34:00 AM		1
oukhalh@mtvne.ad.viacom.com	Done	QC Subtitle Check	12:34:00 AM	Passed	1
	Total		12:34:00 AM		1
	Total		12:34:00 AM		1
rgga@mtvne.ad.viacom.com	Done	QC Subtitle Check	12:20:00 AM	Passed	2
	Total		12:20:00 AM		2
	Total		12:20:00 AM		2

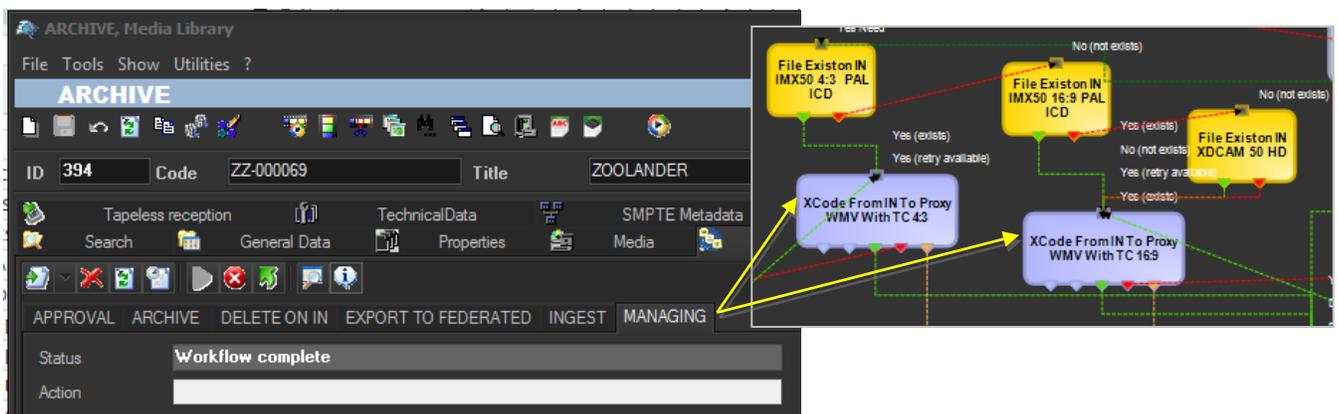
- Add storage metadevices:



▼ 6.3.3.6.4 What are the levels of watermarking & how do I apply them – roscoping/fingerprinting, tagging by user/vendor

(Watermark transcoding)

The workflow that export video files to subtitle and dubbing agencies will be enabled to automatically watermark the clip (depending on vendor), thus protecting content from unauthorized use. A set of transcoding actions will be automatically executed from within “**Managing**” workflow to create the **proxy files** (4:3 or 16:9) required by **vendors**:

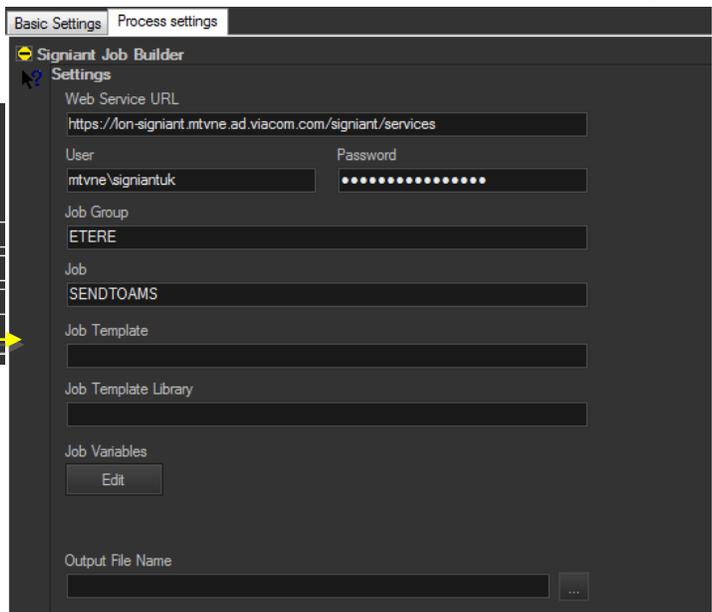
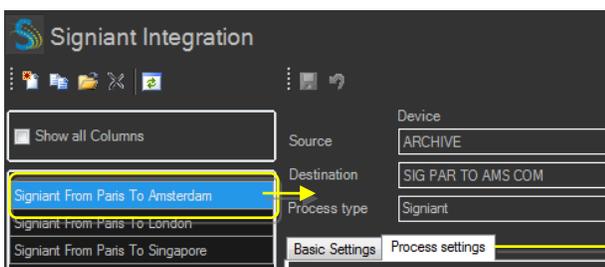


As soon as a production master is prepared (e.g. watermarked) for being sent to subtitling and dubbing agencies, the **ICM team** will be alerted to proceed with the delivery.

▼ 6.3.3.6.5 Describe/show operational and error handling capabilities with integrations of external systems such as encoders, Signiant (parsing errors, trigger workflow based on error etc.)

(External integration)

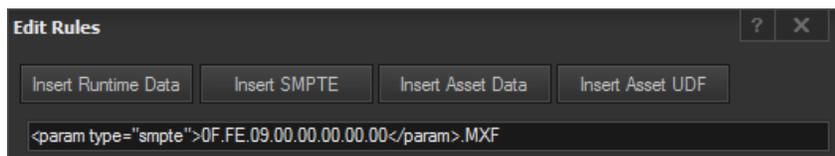
The tight integration of Etere with major broadcast solutions ensures the integration of existing **Signiant** systems, allowing to trigger jobs and get updates of progress and status information. Custom "**Signiant integration**" workflow actions allows requesting -via workflow- the execution of file transfers based on Signiant jobs for files stored in Etere:



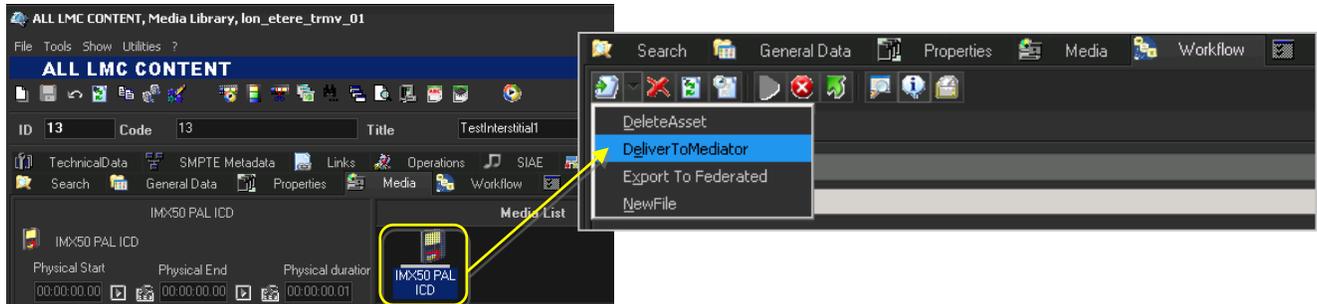
As shown above, the workflow action that enables the integration allows configuring all the parameters required for a tight integration including:

<b>Web service URL</b>	URL on which the <b>Signiant web services</b> is available (i.e. where jobs are managed)
<b>User</b>	Username for accessing the web service.
<b>Password</b>	Password for authenticating the username in the web service.
<b>Job group</b>	The organization group under which the job falls.
<b>Job</b>	ID of the job the in Signiant system
<b>Job template</b>	Signiant job template. If this parameter is blank, the existing job will run.
<b>Job template library</b>	Signiant job template library
<b>Job variables</b>	Set of <b>custom variables</b> to pass to <b>Signiant web service</b> for carrying out the job.
<b>Output filename</b>	The <b>custom name</b> with which files will be named on the target location.

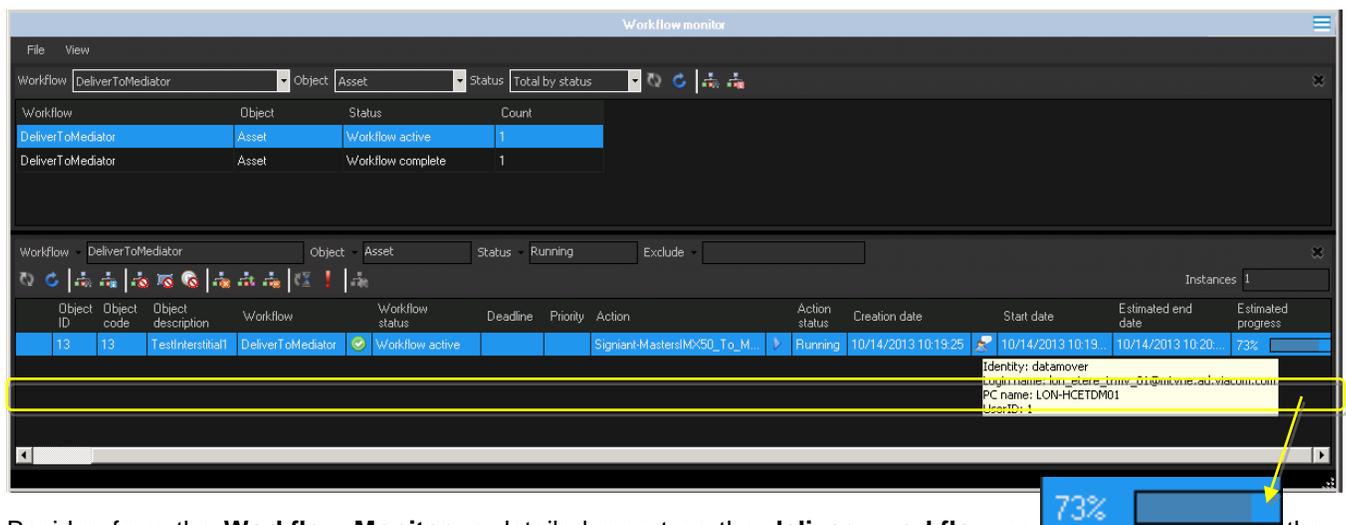
Both **job variables** and **output filename** parameters are set using the **Rules Editor** tool, which enables users to freely build custom names (e.g. to name files on their target destinations) combining **database references** (e.g. Table Fields, SMPTE Metadata) and **free text**:



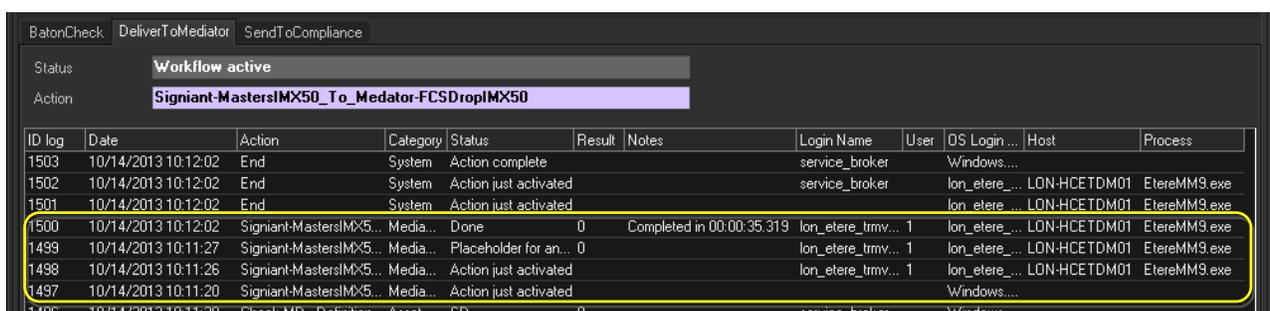
**Delivery workflows** can be easily and quickly triggered by enabled users from the **Media Library**, just by launching the pertinent workflow:



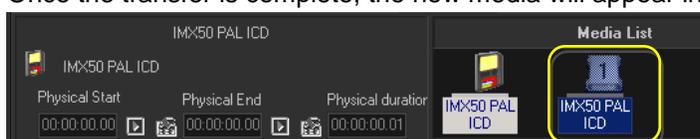
The status and progress of requested transfers will be traceable -from the **Workflow Monitor**- that will display all information regarding the delivery action including a progress bar:



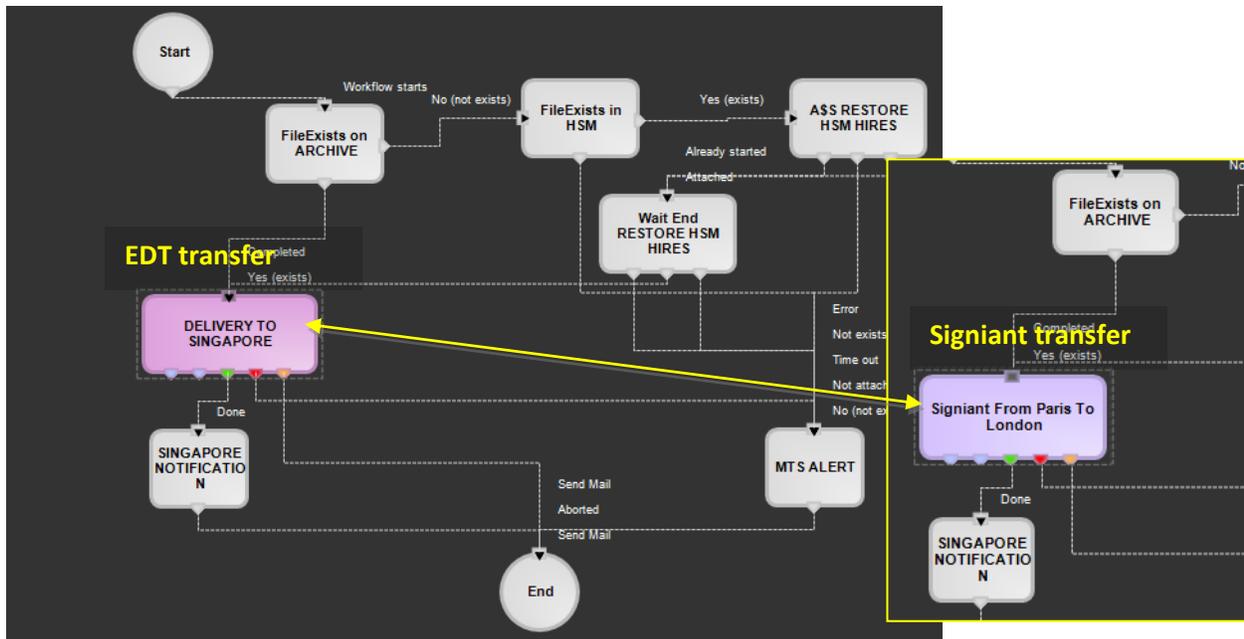
Besides from the **Workflow Monitor**, a detailed report on the **delivery workflow** can be consulted from the **Media Library**:



Once the transfer is complete, the new media will appear in the asset's **Media** tab:

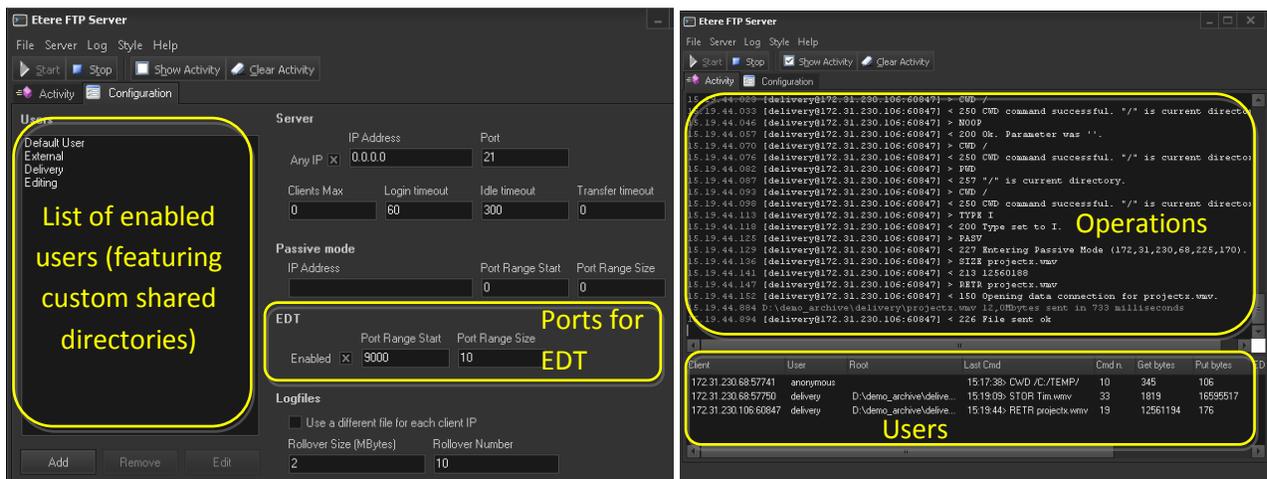


It's worth mentioning that **EDT transfers** can be also used instead of **Signiant transfers** to transfer data, workflows are designed to allow an easy switch between both methods:



**EDT (Etere Data Transfer)** is a technology developed by **Etere** based on the high-performance data transfer protocol UDT (UDP-based Data Transfer), it uses a streamlined algorithm capable to utilize all the available WAN bandwidth, making of it the ideal solution for data intensive transfers over high speed wide area networks (it's 7 times faster than FTP).

**Etere EDT** is included in the **Etere FTP server** for custom and faster FTP transfers, providing a wide set of parameters (e.g. enabled users, EDT range, etc.) and a detailed log of operations and connected users:



### 6.3.4 ASSUMPTIONS

The solution provided is intended only software solution, in the proposal is not included any hardware devices or third party software, an additional document is provided in order to declare the hardware necessary to run correctly the system based on the specification of VIMN.

Based on the agreement with Viacom worldwide Etere is intended to provide the full software packages with unlimited ETERE user CAL, in case is necessary to implement the IT based playout system the software to run the Matrox card is included but the hardware with Matrox card must be purchased separately.

In one of the Q/A we assume that the devices or third party software are the following:

- 2 x Tachyon servers
- 2 x Rhozet transcoders
- 2 x Vantage transcoders
- 2 x Baton (AutoQC)
- 1 x Diva, 2 robots, 2 actors and approx. 1000 slots

Etere will provide a system drawing based on the above list of devices, in case is needed to increment the number of devices to be controlled the price will not change but we need to eventually redesign the system drawing (project management task).

### ▼ 6.3.5 PROVIDE A RECOMMENDED GOVERNANCE MODEL AND APPROACH TO QUALITY MANAGEMENT

Based on Etere experience is possible to have multiple governance models.

It is difficult to provide governance model if we don't know almost anything about the NY organization, usually this is a task that will be done during the project management session with Etere and VIMN (already quoted for this RFQ).

### ▼ 6.3.6 PROPOSED APPROACH AND TIMELINE

Q4 2013 or Q1 2014 planning and finalizing the project in details

Q1 2014 to Q2 2014 deploying the system on site

The timeline can vary (faster or slower) depending on the availability of the hardware necessary to deploy the system.

### ▼ 6.3.7 RISKS AND MITIGATION STRATEGIES

please refer to the Viacom Worldwide agreement

### ▼ 6.3.8 PRICING SUMMARY

the system is sold and not rent.

Below you can see the pricing summary with the detailed items cost.

items codes	ETERE Pricing summary	units	cost per unit \$ USD	TOTAL \$ USD
basic license	Based on Viacom Worldwide agreement, Etere full software modules packages and unlimited Etere CAL (user license)	1	0	0
maintenance	Support Maintenance, Upgrade and updates, cost per year (must be paid from the first year)	1	\$35.000,00	\$35.000,00
Project management	project management service ON SITE meeting (days)	15	\$1.500,00	\$22.500,00
installation	Etere installation and setup ON SITE (days) all inclusive	60	\$1.350,00	\$81.000,00
Training	Etere training ON SITE (days), all inclusive	30	\$1.350,00	\$40.500,00
Customization	Etere customization and develop special request price per day	25	\$600,00	\$15.000,00
			<b>TOTAL</b>	<b>\$194.000,00</b>