

Etere

a consistent system

OVERVIEW



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▼ 1. INTRODUCTION

Etere is an international leader in the media market. Etere develops and distributes a wide range of high technology software for broadcasting and media businesses. With more than 20 years of experience, Etere provides powerful, flexible, cost-effective, high-performance, end-to-end media solutions. Etere is the only company worldwide that can offer you a solution to all your media needs in one single package.

Etere is the only solution 100% workflow based for all broadcast and media environments. It's a common framework where there is real-time sharing of all the data among several applications to manage all media business requirements. The workflow approach allows a fully customized design with edge performances.

From its headquarters in Tolentino, Italy, Etere guarantees the best after-sales support service on the market with engineers ready to give professional assistance 24 hours a day, 7 days a week. The service includes voice, email, VPN and VoIP with unlimited calls and connection time, and a pro-active system to help diagnose problems before they appear.

Etere can take control of the various operations that makes part of the entire station's workflow. The solution proposed by Etere will provide the station with a rock-solid distributed system able to integrate into a single solution the key features of a Media Asset Management. Additionally, Etere's solution will permit to straightly connect ingest channels with Etere MAM to browse and edit media assets before their delivery.

Etere entirely manage digital contents from acquisition to delivery providing the following key features:

- ✓ **Integration**, with existing elements including NLE systems, allowing direct access to archive through a secure web interface for upload and download
- ✓ **Flexibility**, on meeting all requirements by proving a versatile media management system tightly integrated with all the metadata and equipment
- ✓ **Scalability**, thanks to a distributed architecture, the system can grow without altering the workflow complexity, minimizing operational overheads
- ✓ **Efficiency**, achieved by reducing repetitive manual operations, allowing to define and include in advance in automatic preset workflows
- ✓ **Availability**, and high preservation of archived content including indexing, cataloguing and browsing capabilities
- ✓ **Versatility**, for managing content including editing functions such as video cut, merge, overlay and restore
- ✓ **Transparency**, on media transferring to always deliver the correct media in the correct format
- ✓ **Reliability**, derived from the use of streamlined workflows provided with detailed logs for tracking the quality and functioning of the overall system
- ✓ **Accuracy**, on all phases, reducing the risk of mistakes when archiving data since all archived contents are continuously checked and monitored
- ✓ **Security**, across all tracked operations based on specific user permissions depending on the structure of the customer's Active Directory domain
- ✓ **Usability**, a sophisticated interface guarantees a smooth use and intuitive management of media content, from ingest to playout

▼ 2. ETERE COMPONENTS

ETERE is an integrated broadcasting solution that implements a modular system formed by a set of modules specifically oriented to cover each complex phase of a broadcasting system, focusing to efficiently carry out specific operations such as ingest, archiving, transferring, browsing, etc.

All these operations are synchronously performed within the same database environment and managed by suitable user-defined workflows that ensure an efficient overall system control; these are some of the main features that make of ETERE a solution that can easily fit any media management workflow. All modules that make part of the Etere's proposed solution will be treated throughout this chapter, explaining their roles in the global distributed and integrated system.

MOST IMPORTANT MODULES

- **Etere Ingest**, the flexible solution for capturing contents from a wide range of sources,
- **Etere MTX**, the most advanced, tightly integrated and cost-efficient driver to implement a video server based on the ultimate HD/SD Matrox digital video cards,
- **Etere MAM**, the best solution for indexing and editing a huge amount of media assets, it provides tools for an easier metadata insertion and video cut and merge,
- **Etere Air Sales**, a robust solution for Traffic departments which permits to maximize the productivity of the commercial on-air planning, from an initial proposal to a final invoice.
- **Etere HSM**, an automatic tape-based storage system for long-term management archive,
- **Etere Media Manager**, the enterprise workflow-based media manager that guarantees timing and effectiveness on media transfers between devices,
- **Etere Automation**, a fault-tolerant system to automate the playout of scheduled contents,
- **EtereWeb**, a secure and robust threshold to the station's outside world, a web-based interface that will permit a tight integration with NLE systems and remote facilities (e.g. post-production).

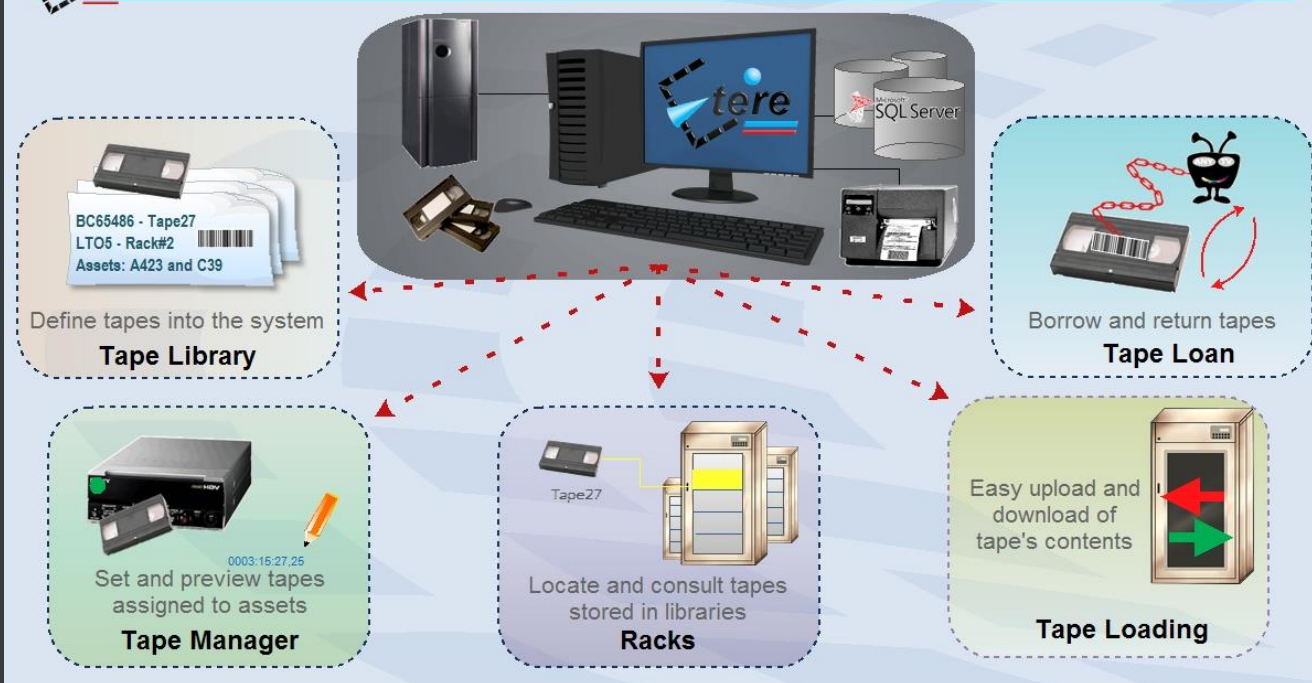


2.1 Tape Management: A powerful management of tapes

Etere allows stations to manage their tape archives (video tapes, data tapes, discs) through a set of modules specifically designed to perform the most important tape-related operations; these modules are illustrated in the figure below and described all throughout the current chapter:



Etere Tape-Management Solutions



It's worth mentioning that the tapes management provided by Etere can be greatly complemented with the remote tapeless capabilities described in the chapter dedicated to the EtereWeb module.

▼ 2.1.1 Tape Library

The **Tape Library** module is the inventory where all tapes managed within the system are inserted and defined, being possible to search them through a robust search engine (loaned tapes are highlighted to point out their unavailability):

Tape Library, michael, CHANNEL 1

File Tools

Search Tape

Code
Title
Description
Barcode
Source barcode
Types
Supplier
Source

Date From 16/01/2013 TO 16/01/2013

Search also the expired media

Records displayed 250 Search

ID	Types	Code	Title	Description	Barcode	Date	Tape type	Types	Media	Status	Location
8	Beta	10000002	10000002	Another testing tape	10000002	12/06/2009	Master	Beta	1BETABETA		Beta Library Slot (1, 2)
30	Beta	10000004	10000004	Just a testing tape	10000004	12/10/2009	Master	Beta	0BETABETA		Beta Library Slot (1, 3)
102	Beta	10000005	10000005	Oasis top videoclips	10000005	26/06/2009	Master	Beta	1BETABETA		Beta Library Slot (1, 4)
12	Beta	10000006	10000006	Oasis top videoclips	10000006	26/06/2009	Master	Beta	1BETABETA		Beta Library Slot (1, 5)
106	Beta	10000007	10000007	Wonderwall versions	10000007	29/06/2010	Master	Beta	1BETABETA		Beta Library Slot (2, 1)
104	Beta	10000008	10000008	Wonderwall versions	10000008	29/06/2010	Master	Beta	1BETABETA		Beta Library Slot (2, 2)
13	Beta	10000009	10000009	Wonderwall versions	10000009	29/06/2010	Master	Beta	1BETABETA		Beta Library Slot (2, 3)
101	Beta	10000010	10000010	Kristal thom	10000010	25/10/2011	Master	Beta	0BETABETA		Beta Library Slot (2, 4)
82	Beta	10000011	10000011	Reception loud	10000011			Beta	0BETABETA		Beta Library Slot (2, 5)

Retrieved tapes can be consulted by viewing their main information (i.e. ID, code, description, type, format, barcode, media pool, rack location):

Tape Library, michael, CHANNEL 1

File Tools

Search Tape

ID 106

Code 10000007

Title 10000007

Description Wonderwall versions

Tape Type Master

Media Format Beta

Video Standard Ntsc 625 DF

Barcode 10000007

Date 29/06/2010

Dual Audio

Media Pool

VTR Info

Number 1

Types BETA

Counter

Source barcode tape03

Last Inventory 31/12/2010

Subtitled x

Personal data

Archive Location

Languages

Notes

Operations

Supplier Michael Vasquez

Source DevilsAgency Devil's Agency

Moreover, it will be also possible to perform various operations such as tape creations, tape loans, tape copies and status consultations (e.g. empty tapes, loaned tapes, etc.):

Status	Quality	Codec	Code	Description	SOM	EOM
			124	Juventus - Real Madrid Champi...	00:00:00.00	01:50:10.20

▼ 2.1.2 Racks

The **Racks** module provides a simple user-interface for locating tapes inside specific racks and libraries and consult some of their more important storage properties (e.g. free space, used space, etc.). As shown in the figure below, the user interface is mainly composed by the Content List (i.e. where contents of each single library/cart can be consulted) and a Toolbar (holding the functions supported for their management).

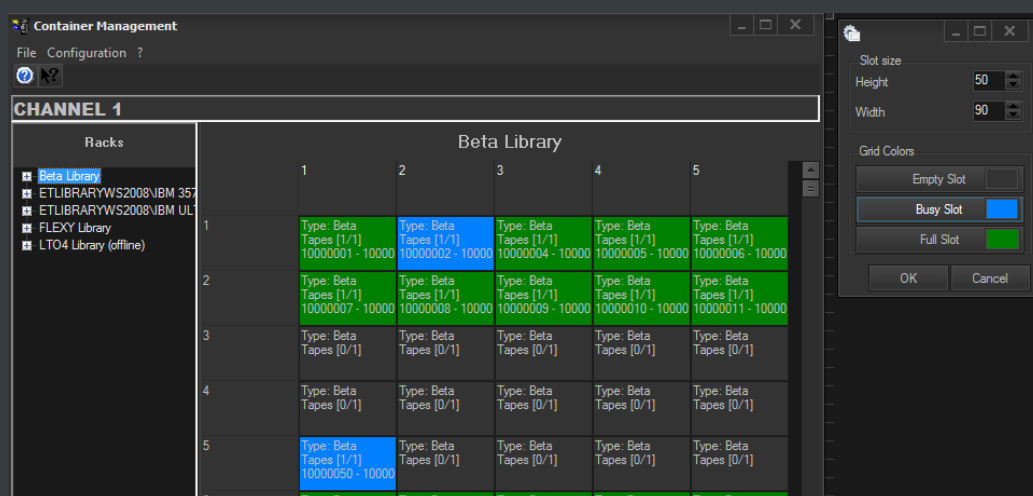
Rows	Media Code	Video Standard	Free space	Used space	Total space	Percentage	Media pool
1						0%	
2	459AAGL5	LTO4	800.00 GB	0	800.00 GB	0%	MP-Videoclips
3	457AAGL5	LTO4	800.00 GB	0	800.00 GB	0%	MP-Memory01
4	455AAGL5	LTO4	800.00 GB	0	800.00 GB	0%	No Media Pool
5						0%	
6						0%	
7						0%	

No.	Media Code	Video Standard	Free space	Used space	Total space	Percentage	Media pool
256	456AAGL5	LTO4	800.00 GB	0	800.00 GB	0%	MP-Commercials
257	458AAGL5	LTO4	800.00 GB	0	800.00 GB	0%	MP-Programmes

All tapes contained into a library can be consulted through a very useful “Tape Info” form which details some important information such as its code, type, barcode, title and contained assets:

S...	Q...	C...	Code	Description	Metafile	Start	End
1				Wonderwall		00:00:00.00	00:03:45.02
32				Diamonds on head		00:00:00.00	00:04:45.22

A "Container Management" form displays an array-view of the slots contained within Racks and provides visual information on their space status (e.g. green=empty, yellow=used, red=full):



A "Library Summary" provides an overview of the management of each library in the system:

The screenshot shows the 'Library summary' window. It has a 'Show' button and a 'Help' icon. Below is a table with the following data:

Library	Archives	Errors	Restores	Errors	Other	Errors	Tape movem...	Errors
server2003\QUANTUM DLT8000	55	2	33	14	53	23	69	0
FLEX-01	108	3	5	2	52	10	121	0
server2003\QUALSTAR TLS-6460	0	0	0	0	0	0	0	0
ETLIBRARYWS2008VBM 3573-TL	0	0	0	0	0	0	0	0
ETLIBRARYWS2008VBM ULT3580-H	0	0	0	0	0	0	0	0
FLEX-03	0	0	0	0	0	0	0	0

A 'Detail of errors' button is visible next to the 'ETLIBRARYWS2008VBM 3573-TL' entry.

▼ 2.1.3 Tape Loan

Tape Loan is the module that allows managing all information related to the borrowing and return of tapes. Loans are recorded in the database detailing the loaner (company and person), the loan and return responsible, the actual loan data, the expected return data, the loaned media (tapes), being also possible to print a loan receipt document for each loan operation:

The screenshot shows the 'Tape Loan, michael, CHANNEL 1' window. It has a 'Search Loan' button and a 'Loan Data' button. Below is a form with the following fields:

- Code: []
- Description: []
- Company: API Media Center
- Person: Maxju
- Loan Resp.: michael
- Loan Date: 16/01/2013
- Return Resp.: []
- Scheduled Date: 16/01/2013
- Return date: 16/01/2013
- Notes: []
- Clear Slots: []
- Media: []
- Receipt Print: []

At the bottom, there is a table with the following data:

Returned	Code	Title
	10000001	10000001
	10000005	10000005

Stations will be allowed to search due-for-return tapes and consult pending loans, settle loan returns and print loan reports:

Tape Loan, michael, CHANNEL 1

Search Loan | Loan Data | Tapes management

Search Rules:

Company: Unrecovered Loans ☒ Unexpired Loans ☐ Start Date: 16/01/2013

Person: Recovered Loans ☐ Expired Loans ☐ Scheduled Date: 16/01/2013

Cancelled Loans ☐ Return date: 16/01/2013

Tape Code: Loan Code: Tape Title:

Description: Search Loans

Company	Person	Start	Scheduled	Representative
API Media Center	Jules	16/01/2013	16/01/2013	michael

Code	Title
10000001	10000001
10000005	10000005

▼ 2.1.4 Tape Manager

Tape Manager allows assigning new or existing tapes to assets, detailing the information required for their subsequent recording (e.g. SOM, EOM, EDL instructions, split parts):

Next On-Air's Assets Management, michael, CHANNEL 1

Next On-Air Asset List

Standard | Extended | Flags | Fulltext | All

Duration: 00:00:00.00 | 00:00:00.00

Types:

ID:

Code:

Title: Starts with:

Ingest date: 16/01/2013 | 16/01/2013

Scheduling Date: 16/01/2013 | 16/01/2013

Timeout (sec.): 30

Sort by: Code | Descending

Records displayed: 50

Groups:

Reset | Search

ID	Code	Title	Media
29	29	XYZ spot 2001	
3	3	Pathetique Movement	
3064	3064	2010 - New Laproaig spot	
3066	3066	Testing Advertising Commercial	
3068	3068	Deep Trip	

Execution time: 00:00:00 | Page: 1/8 | Records: 50/396 | Sorted by: Code | *Durat

Ingest Data

BETA-01 - Beta-01

00:00:00.00

Counter: LTC | CTL

Asset Data

Code: 3064

Title: 2010 - New Laproaig spot

Tape Data

Code: 10000001

Start: 00:00:00.00 | End: 00:00:29.00 | Duration: 00:00:29.01

Part No.: 0 | Tape type: Master | Sched. Duration: 00:03:45.24

Asset Segment

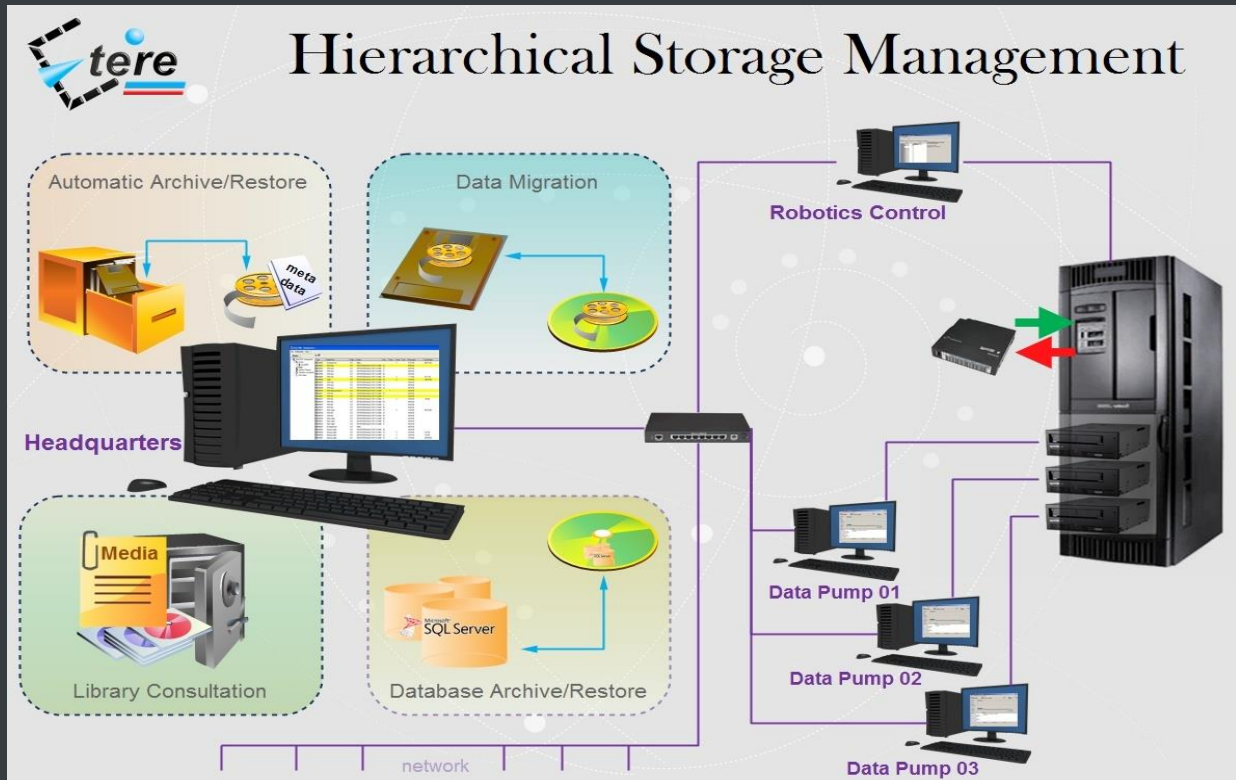
SOM	EOM	Duration	Description
1	00:00:10.00	00:00:10.00	00:00:00.01
2	00:00:20.01	00:00:10.01	00:00:00.01

Segments Number=2

OK | Cancel | Apply

▼ 2.2 HSM: A Tape Based Archiving

LTO tape libraries present in the station will be managed by **Etere HSM**, the cost-effective solution to radically streamline the management of expensive tape libraries; allowing stations to optimize the migration of contents including meta high and low versions as well as associated metadata.



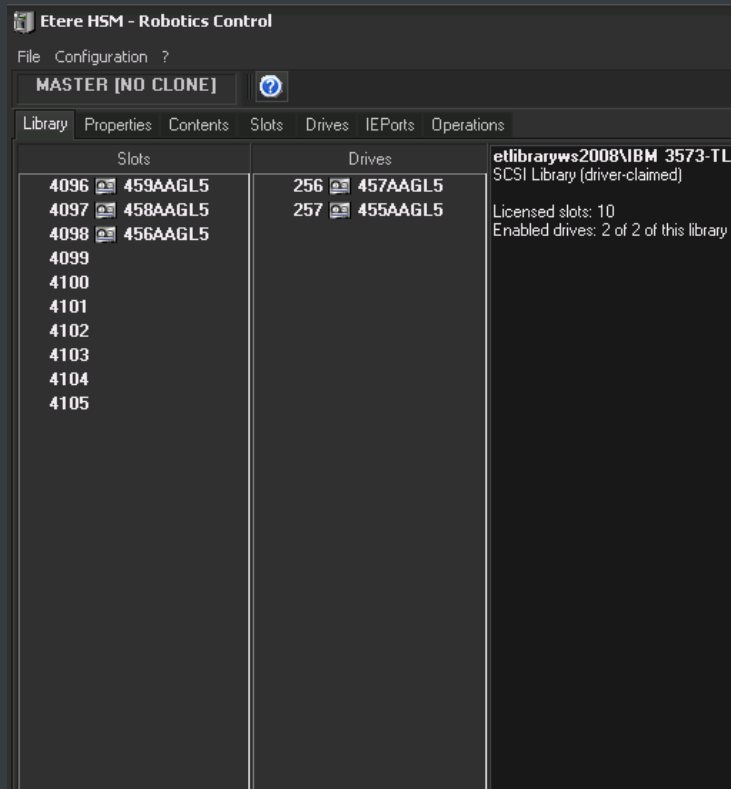
HSM improves the management of libraries by controlling their mechanical movements through the HSM Robotics Control and HSM Data Pump applications, which are able to run several data pumps on different machines to boost their throughput, while offering access to real-time logs, reports and statistics.

The screenshot shows the Etere HSM - Headquarters software interface. The main window displays a table of tape library data. The table has columns for Tape, Media Pool, Slot, Drive, Used, Test, Free space, Used Space, Space deleted, and Library. The data is organized into a table with 10 columns and 15 rows. The table is filtered to show records 50/101. The interface also includes a sidebar with navigation options like Servers, HSM1, Media, Workflows, Operator Requests, and Work queue. The bottom status bar shows scheduling and maintenance information.

Tape	Media Pool	Slot	Drive	Used	Test	Free space	Used Space	Space deleted	Library
0008B3L5	MP MAIN	3037	1002	X		0 bytes	1,30 TB	138,38 GB	HSM1\SONI
0008B4L5	MP MAIN	3037		X		54,00 MB	1,38 TB	0 bytes	HSM1\SONI
0008B5L5	MP MAIN	3012		X		4,15 GB	1,37 TB	0 bytes	HSM1\SONI
0008B6L5	MP MAIN	3004		X		4,16 GB	1,38 TB	0 bytes	HSM1\SONI
0008B7L5	MP MAIN	3074		X		13,13 GB	1,37 TB	0 bytes	HSM1\SONI
0008B8L5	MP MAIN	3099				1,36 TB			HSM1\SONI
0008B9L5	No Media Pool	3003		X		1,23 TB	156,16 GB	108,91 GB	HSM1\SONI
0008BAL5	MP MAIN	3007		X		195,00 MB	1,38 TB	0 bytes	HSM1\SONI
0008BBL5	MP MAIN	3005		X		587,00 MB	1,38 TB	0 bytes	HSM1\SONI
0008BCL5	MP MAIN	3011		X		370,00 MB	1,38 TB	89,46 MB	HSM1\SONI
0008BDL5	MP LOWRES BKP	3018				1,36 TB			HSM1\SONI
0008BEL5	MP LOWRES MAIN	3021				1,36 TB			HSM1\SONI
0008BFL5	MP MAIN	3013		X		2,12 GB	1,38 TB	0 bytes	HSM1\SONI
0008BGL5	MP MAIN	3002		X		1,38 GB	1,38 TB	0 bytes	HSM1\SONI
0008BHL5	MP MAIN	3019		X		5,08 GB	1,38 TB	0 bytes	HSM1\SONI
0008BJL5	No media pool2copy	3006				1,36 TB			HSM1\SONI
0008BKL5	No media pool2copy	3016				1,36 TB			HSM1\SONI

Etere HSM distinguish four different archiving levels into a broadcasting workflow, these levels required distinct access times which vary from 0 minutes (video server) to 15 minutes (standard video tapes). All these levels are managed “virtually”, that is, you can use logical devices (metadevices)

based on physical devices to free design your storage layout, enriching in this way the entire system with the benefits derived from the use of metadevices:



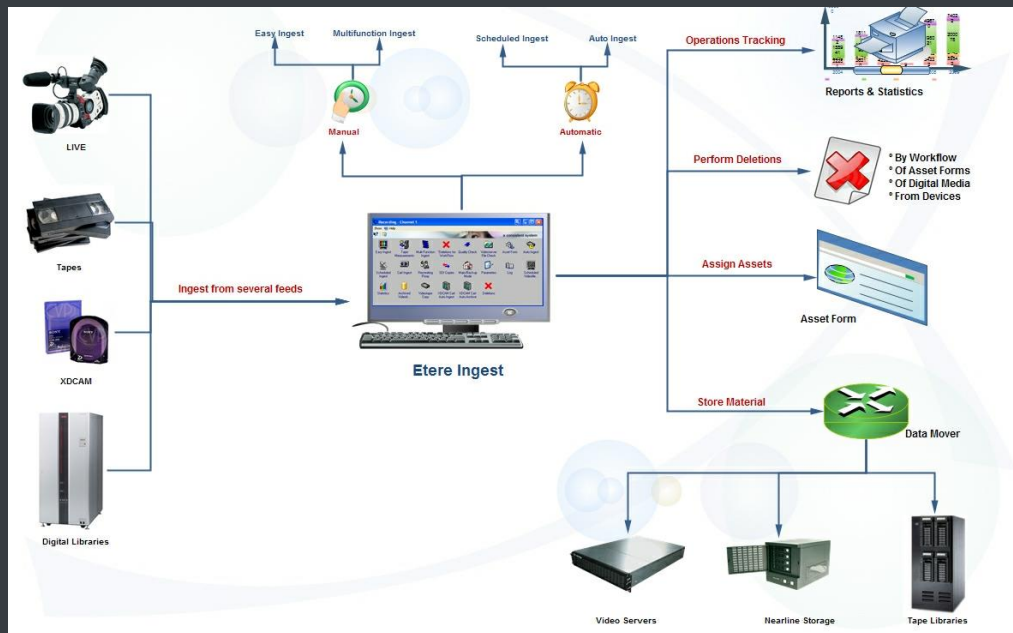
- Carry out loan-balanced movements on an intelligent multi-volume scenario,
- Extend your storage space by joining physical devices into one metadevice, without altering the archiving workflow,
- Categorize your storage devices by dividing them into metadevices with no partitioning required,
- Space limits and storage distribution are defined by the user and not by devices itself,
- Classify metadevices in media pools in order to automate their management,
- Background defragmentation and online/offline tape management,
- Scheduled archiving of devices, media contents and entire databases.

Etere HSM forms a tandem with Etere Data Mover to be the only solution in the market with an embedded multi-level and multi-rule cache that offers an intelligent management which ensures the best performances with low investments.

Moreover, owing to Etere's comprehensive character, these applications are perfectly integrated with other modules (e.g.: Ingest, EtereWeb, etc.) to allow all these modules to use shared resources and have unlimited communication.

▼ 2.3 Ingest: Enterprise Capturing System

Etere ingest is a versatile set of modular applications that significantly improves the digitization process inside a broadcasting system:



▼ 2.3.1 Wide range of capturing modes

Ingest covers any particular requirement of the entire process such as automatic and scheduled ingests:

Scheduled Ingest - CHANNEL 1

Multichannel ingest 16/01/2013 13:25:20 - Wednesday

Channel 1 Channel 2 Channel 3

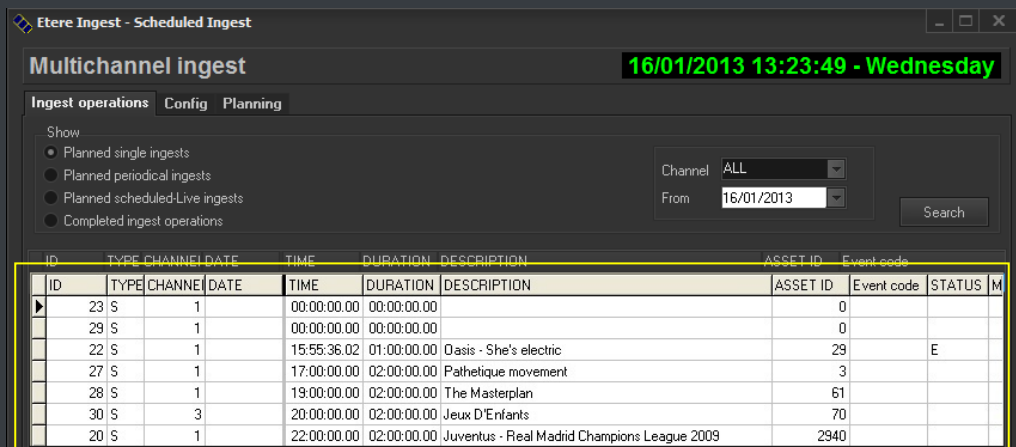
Channel	Next ingest			
1	Type	ID	Code	Description
	Start		Duration	Start Mode
				Stop Mode

Resources	Status	Counter	Free space	File
HQ 1	STOP	00:00:00.00	21:37:45.00	
BK 0	...	...	...	...
LR 0	...	...	...	...
VTR 1	...	...	...	...

Test Resources

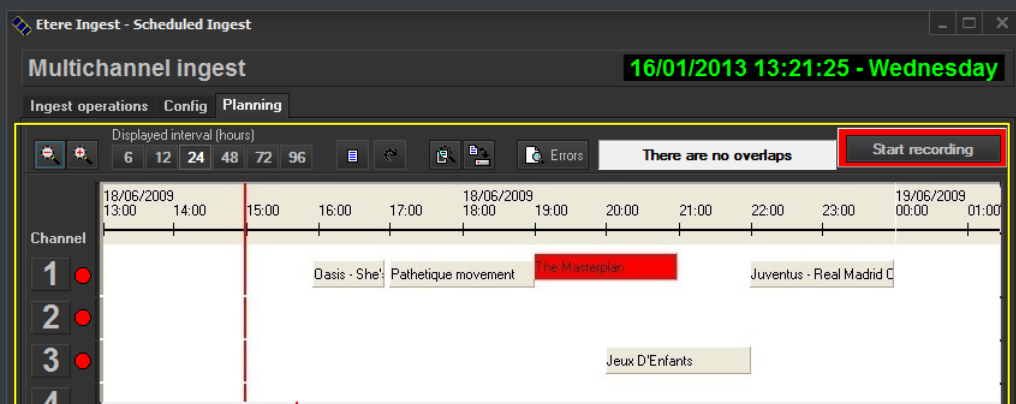
Scheduled ingest operations									
DATE	START	DURATION	CH	ID_TIMEREC	TYPE	ID_FILMATI	DESCRIPTION		
20090618	14:53:24.04	00:00:10.00	1	22	S	0	Recording of "Oasis - She's		
20090618	22:00:00.00	02:00:00.00	1	20	S	0	Juventus - Real Madrid Cham		

Automatic ingest



Schedule ingest

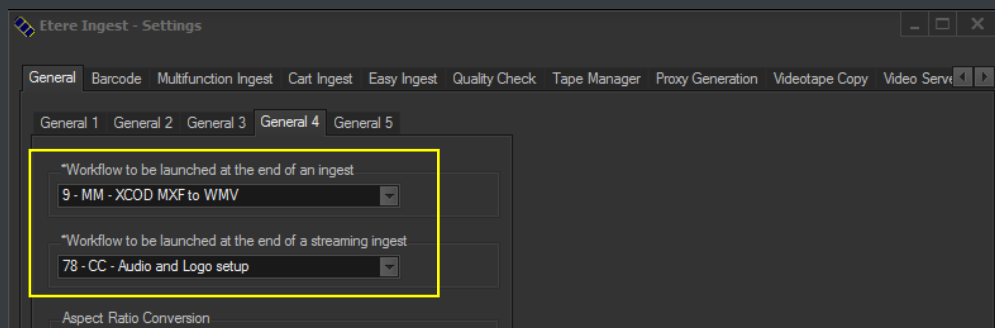
Etere Ingest supports multiple parallel ingest streams, managed automatically either on a single workstation or across various workstations, allowing also to schedule the video files to be ingested:



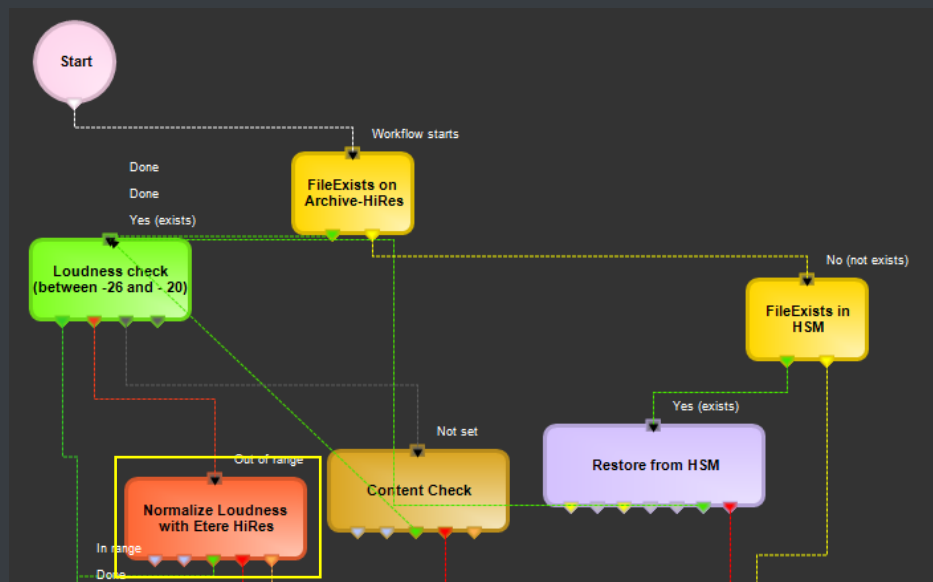
Planning View

▼ 2.3.2 Automatic workflow actions

Once ingested, video files are transcoded into the specific format of the destination device on which they will be stored, in the same way, video files are transcoded each time they are moved from one device to another (e.g.: archiving, playout, etc.):

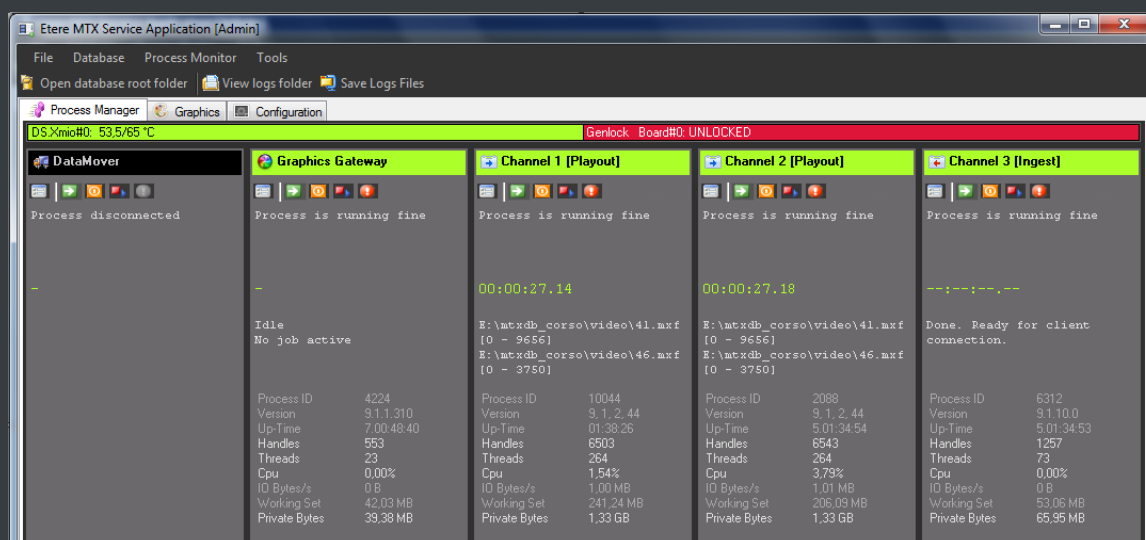


The image below illustrates how Etere allows setting the workflow to be launched at the start and end of an ingest process to for example, create a low resolution version or normalize the audio of captured contents:



▼ 2.4 MTX: Digital Capture based on Matrox technology

Etere MTX is the application offered by Etere to drive the most popular HD/SD Matrox digital video editing platforms, it combines the professional effects technology of a wide range of industry standard codecs with an Etere system, allowing to capture in both high and standard definition formats over digital inputs.



The highly integrated, end-to-end workflow streamlines all the core processes, MTX forms part of global Etere MAM solutions, thus allowing it to use the same metadata and interface available for ingest, content management, transmission control, traffic, archiving, and monitoring.

▼ 2.4.1 Robust IT solution

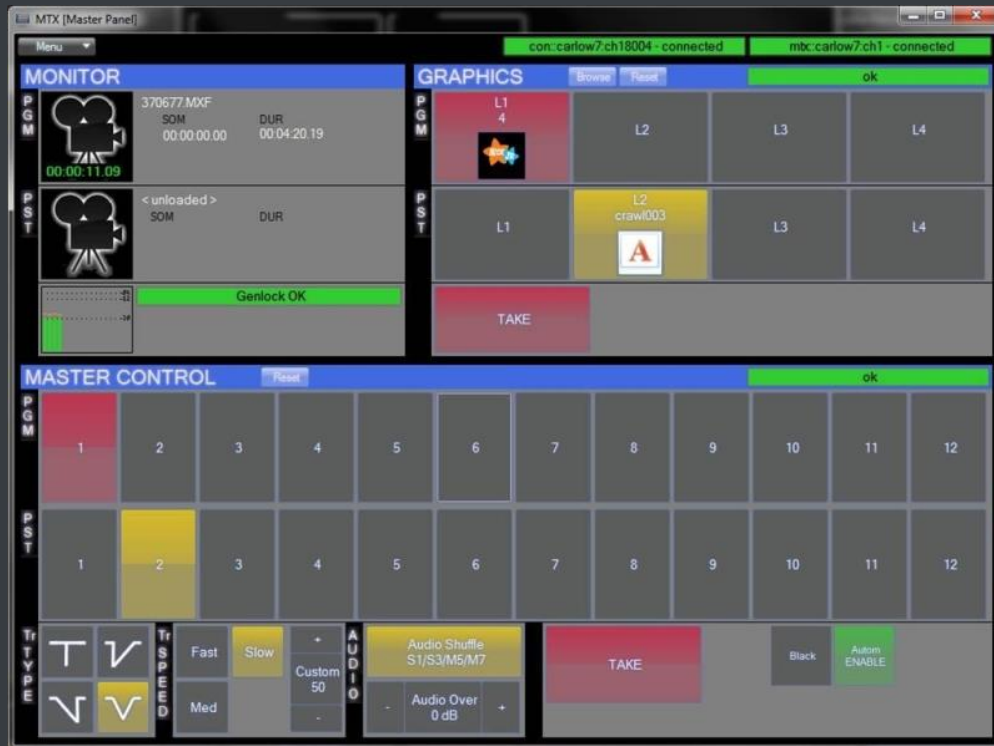
The multi-format ingest allows to use any codec and wrapper on the market, whereas for playout it can mix in real-time all types of footage on a timeline with more layers and/or effects, as well as parallel multi-format ingestions, all these under a user-friendly interface. Besides the common preset

and preview bars, available on a friendly touch-screen graphic interface, MTX includes most graphics and audio functions such as:

- 8 logo layers with unlimited sizes
- 1 Crawl /CG
- Audio shuffling
- Audio control
- Dolby E Pass-through
- Video transitions

▼ 2.4.2 Control Panel

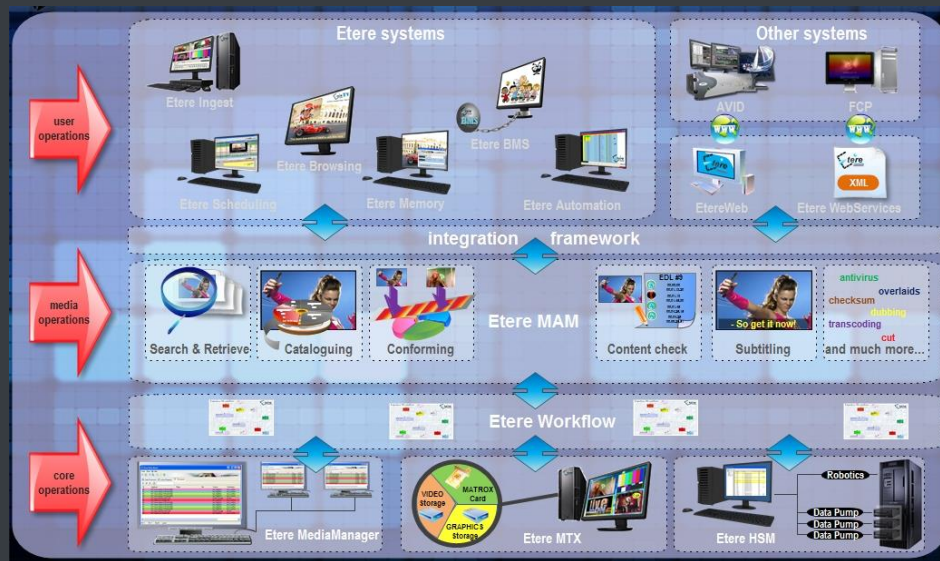
The **MTX Master Panel** is a standalone user graphical interface to allow operators to manually switch a master control, it combines the management of the inputs/outputs of a master control with its preset and take functions, allowing also to customize the various on-screen descriptions.



The **MTX Master Panel** requires only a card with 1 input and 2 outputs to deliver full Master Control functionalities, with a really cost effective system, and the possibility of working in SD and HD without any additional cost. The **MTX Master Panel** will provide all the standard functions of a master control with just a touch of the monitor.

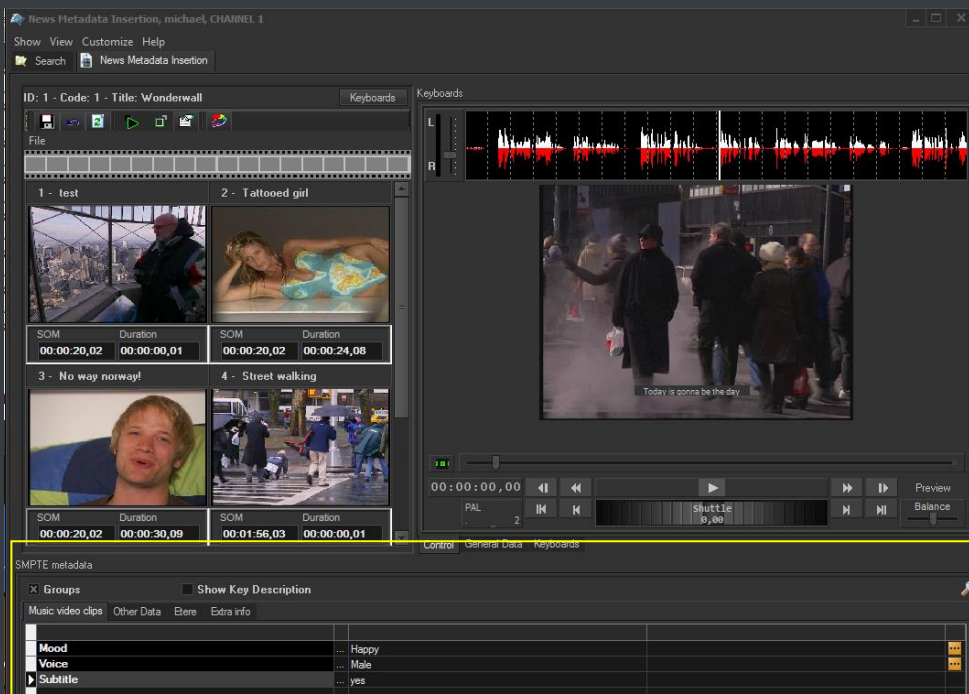
▼ 2.5 MAM: Browsing, Editing and more

MAM will allow operators to store information, search media EDL, and transfer EDL-based media to the playout server and the editing systems:



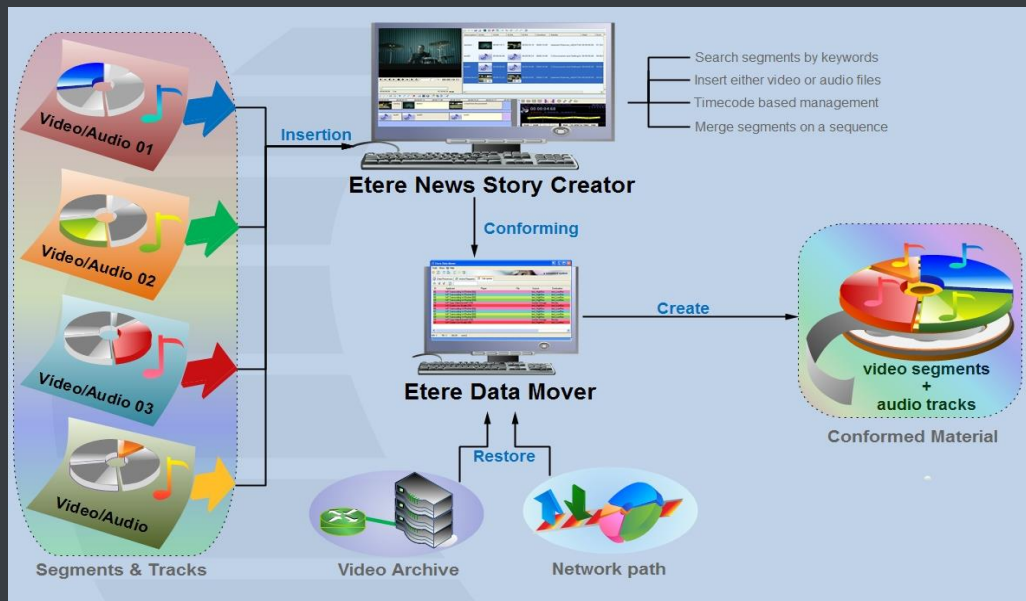
▼ 2.5.1 Media cataloguing and Metadata Insertion

Etere enables search, browse and cataloguing of rich media, a very intuitive interface establishes a bridge between the ingest department and the production department, allowing low-res proxy browsing over the network (contents to be browsed simultaneously from various workstations):

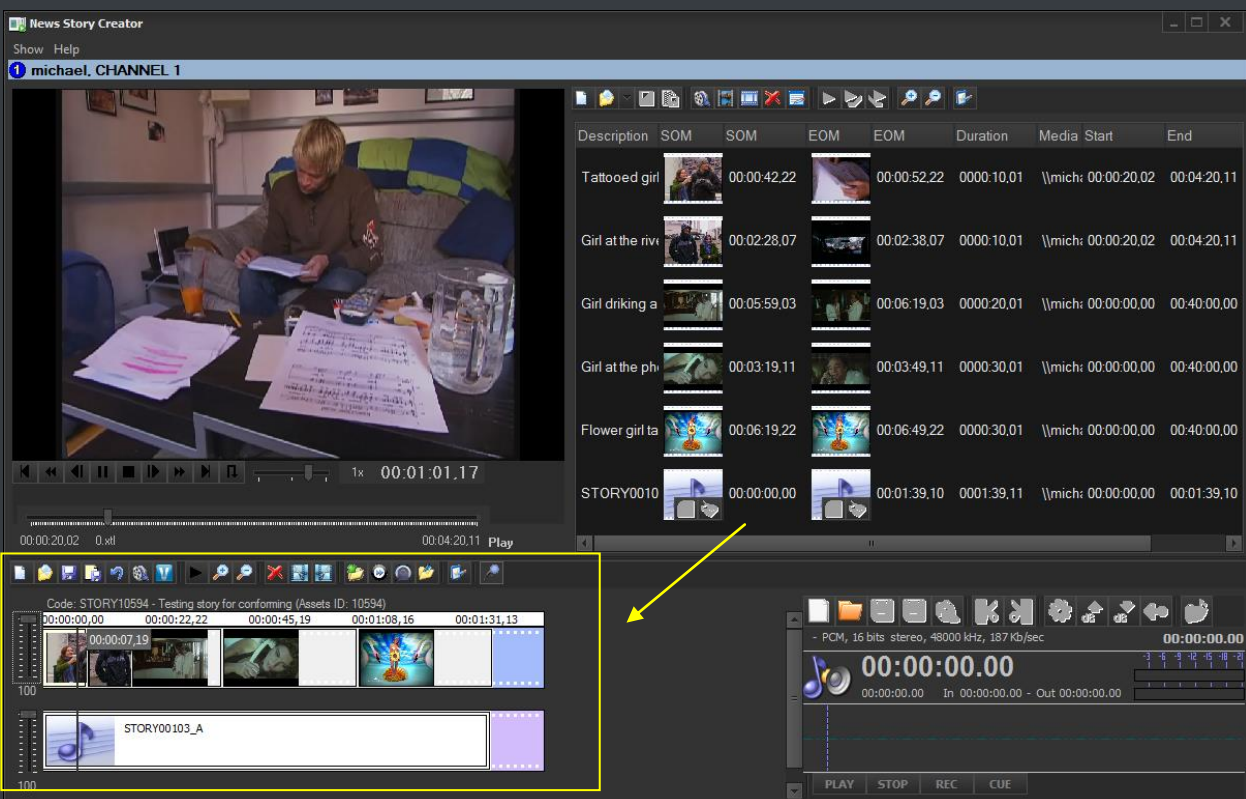


▼ 2.5.2 Video conforming and Audio over

MAM permits to join cut segments from different sources, to create a single final video file containing all scenes selected by the operator:



Use this function to, for example, dubbing contents by overlaying audio tracks over a video(s):

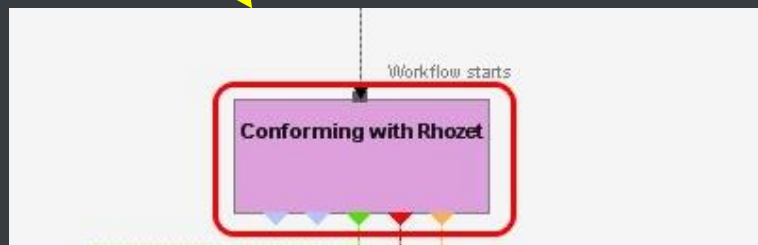
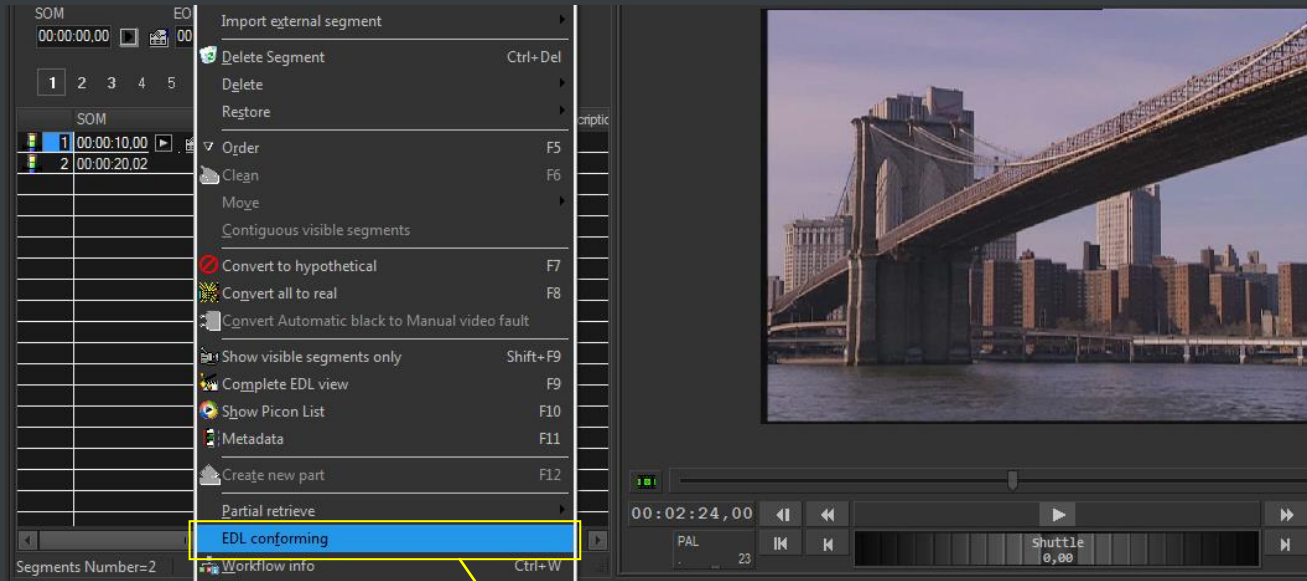


The image above illustrates the user-friendly interface on which operators creates new video sequences of MAM captions which includes all relevant metadata associated to the inserted scenes.



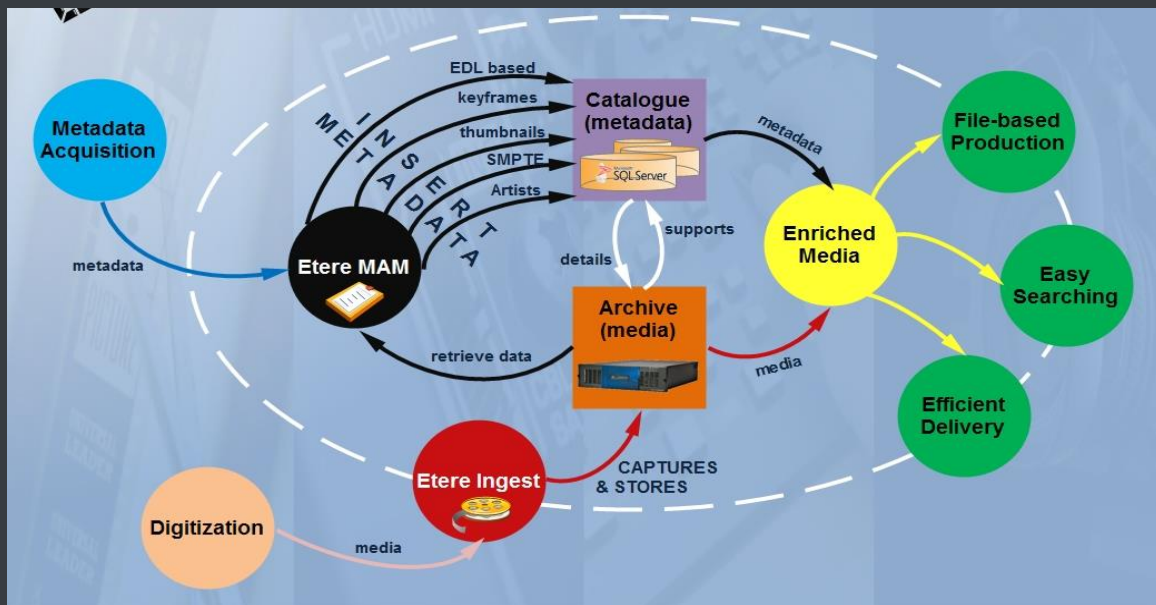
▼ 2.5.3 Partial restore of assets

Etere also allows restoring only a part of video files by creating either high or low resolution video files including specific segments described on the source video EDL, it is important to note that as usual on Etere's operations, the conforming of video files is fully performed via workflow:



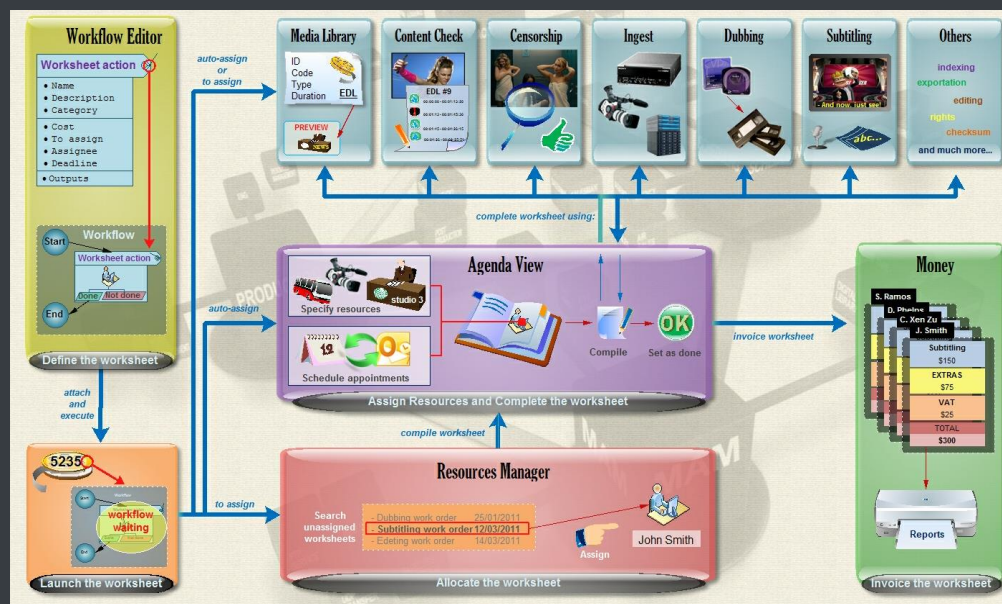
▼ 2.5.4 Integration between MAM and Ingest

MAM can be used along with Etere Ingest to enrich captured media contents and thus leverage all benefits of a file-based production including easy research and efficient delivery capabilities:

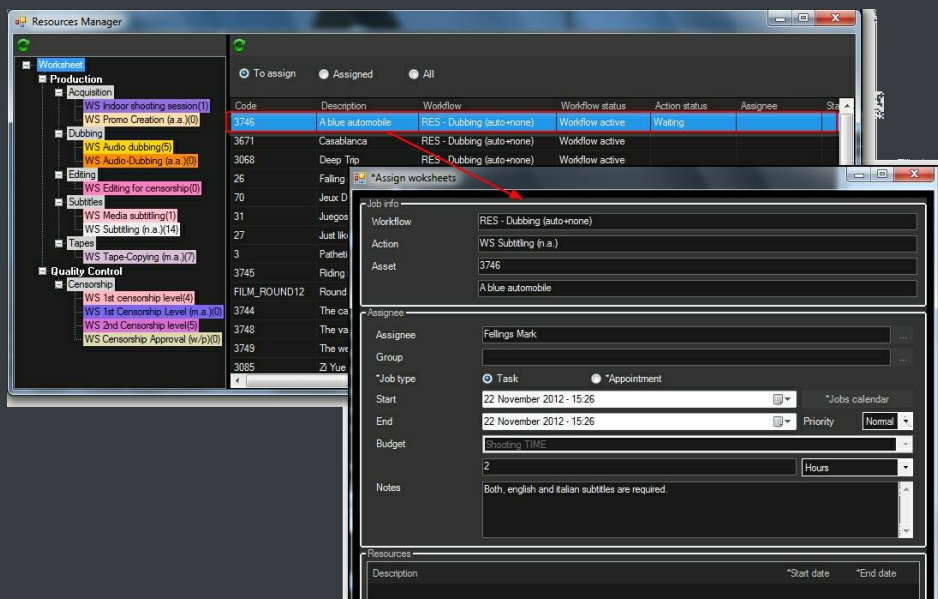


▼ 2.5.5 Resources Management

Resources Management is the flexible solution that permits to virtually manage all operations actually involved in the media asset management, such as for example, subtitles generation, promo creation, tape copying, media editing, audio dubbing, etc. Etere integrates the management of worksheets, from their creation and compilation to their tracking and invoicing.

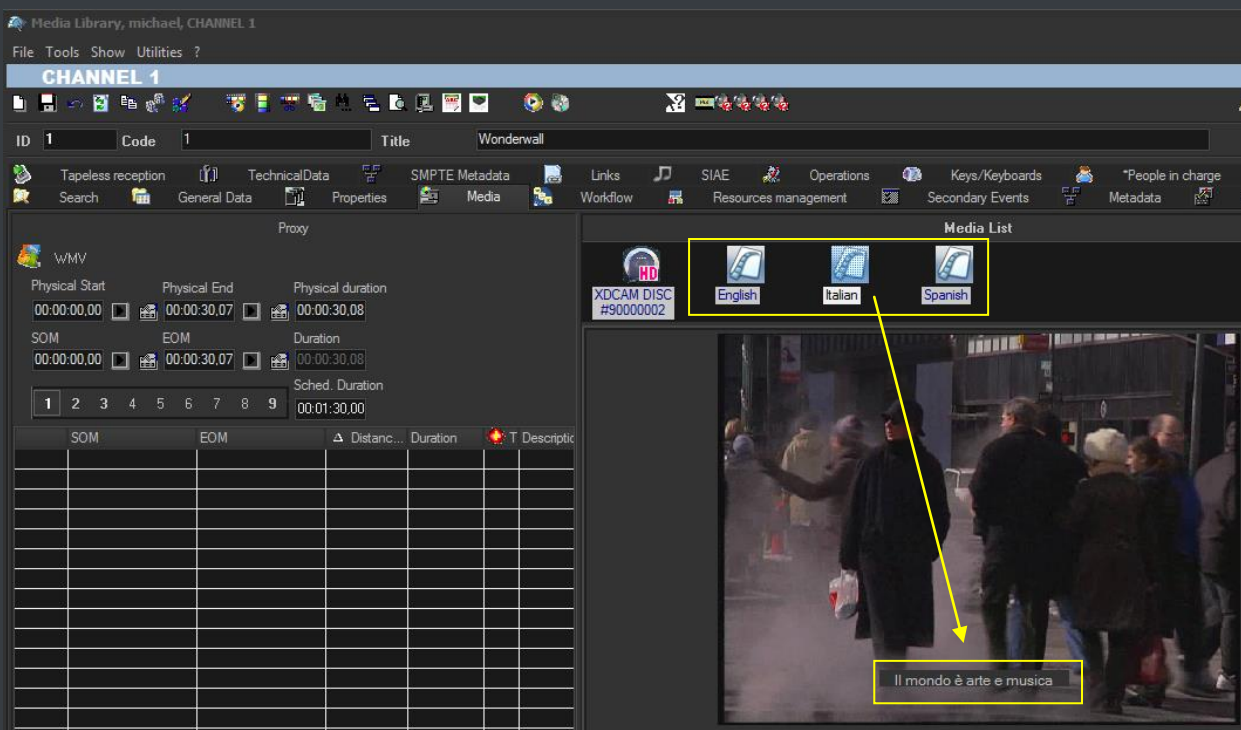


Worksheets are based on a custom structure and are fully integrated into the workflow management, being possible to create user-defined worksheets and include them in automated workflows which current status can be consulted at any time in real-time from either a desktop or web interface:

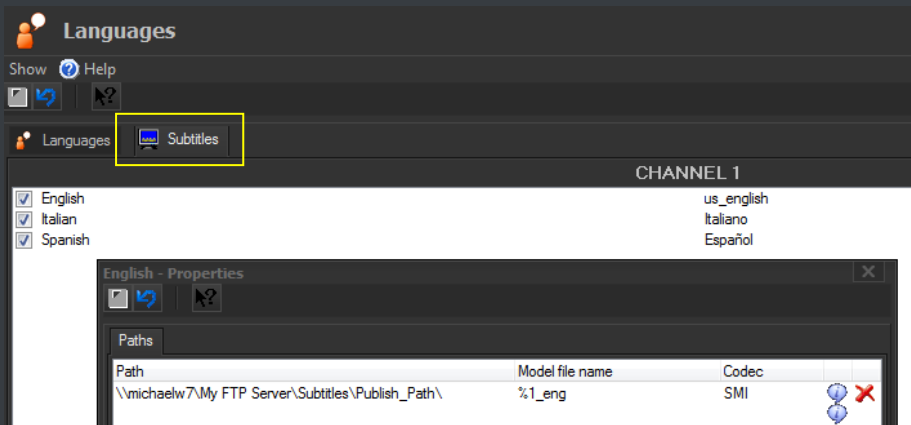


▼ 2.5.6 Subtitles Management

Etere includes, as a part of its enterprise media management, the capability of managing subtitles, subtitles can be generated whether using the WMP synchronized lyrics tool or any other external tool, in all cases Etere will import them automatically:

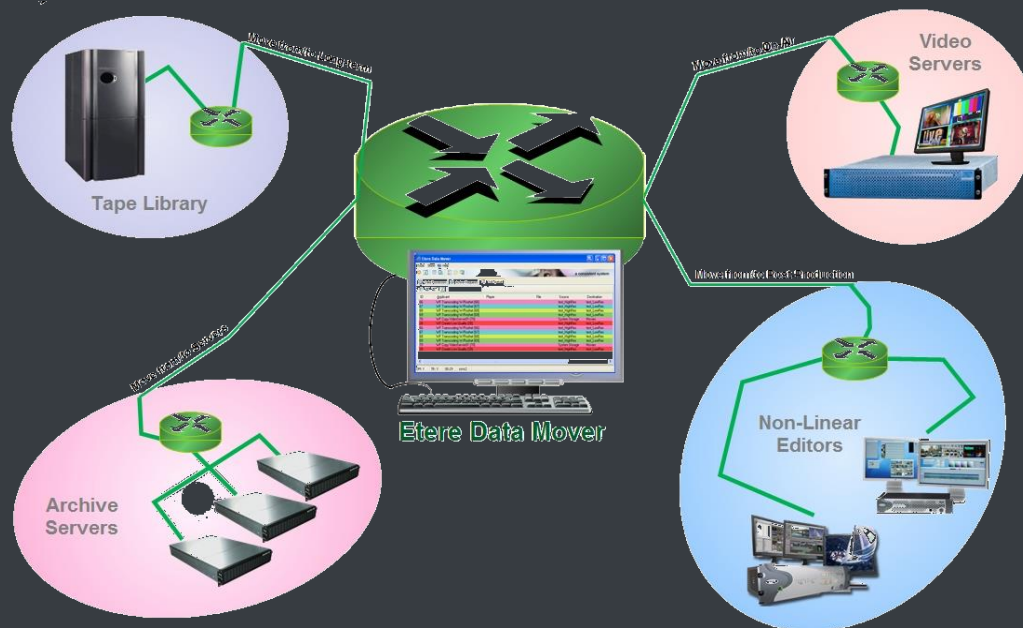


As shown above, subtitles are stored in a repository, ready to be moved to the subtitle engine when either the broadcast playlist will require it or a proxy preview will be performed (e.g. for quality check purposes). Additionally, multiple language subtitle files are supported, allowing stations to specify so many subtitling languages as needed (including their storage paths):



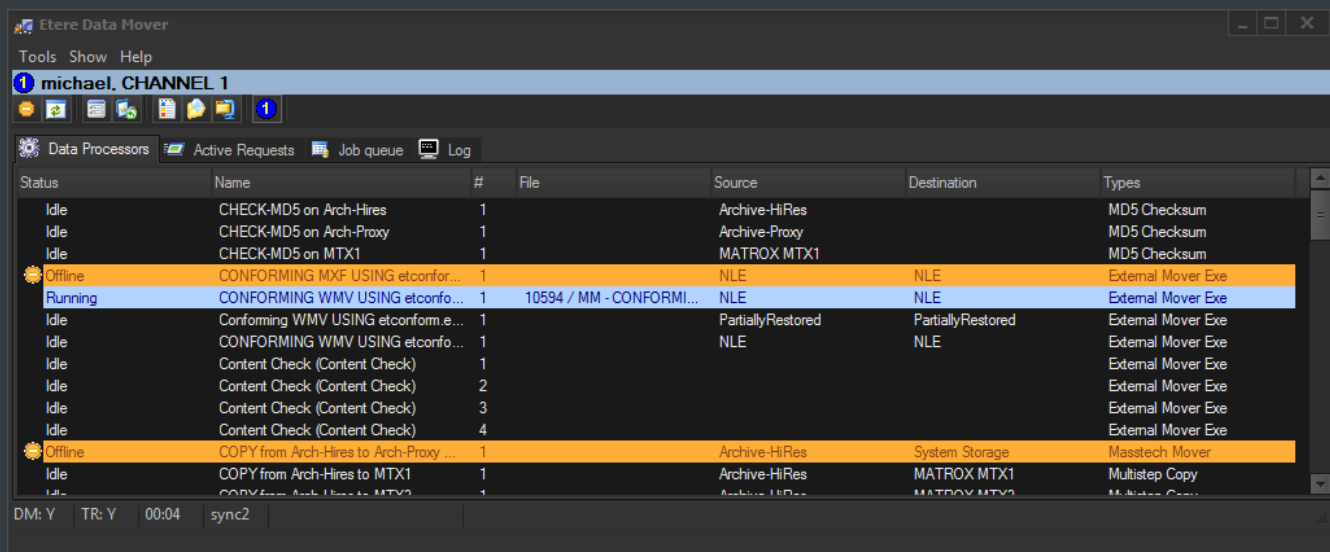
▼ 2.6 DATA MOVER: A Digital Archiving and Delivery

The Media Management solution proposed to encompass station's content transfer and archiving goes beyond of a simple copy concept by moving video files based on custom policies, transcoding video files when required and offering a full track of all operations.



▼ 2.5.1 Simple and user-friendly interface

Video contents will be transferred between the various departments (e.g.: near-line storage, archive, post-production, playout, browsing, and even non-Etere systems) by Etere Media Manager; this migration process also includes rewapping and transcoding capabilities.



▼ 2.5.2 Logical management of data

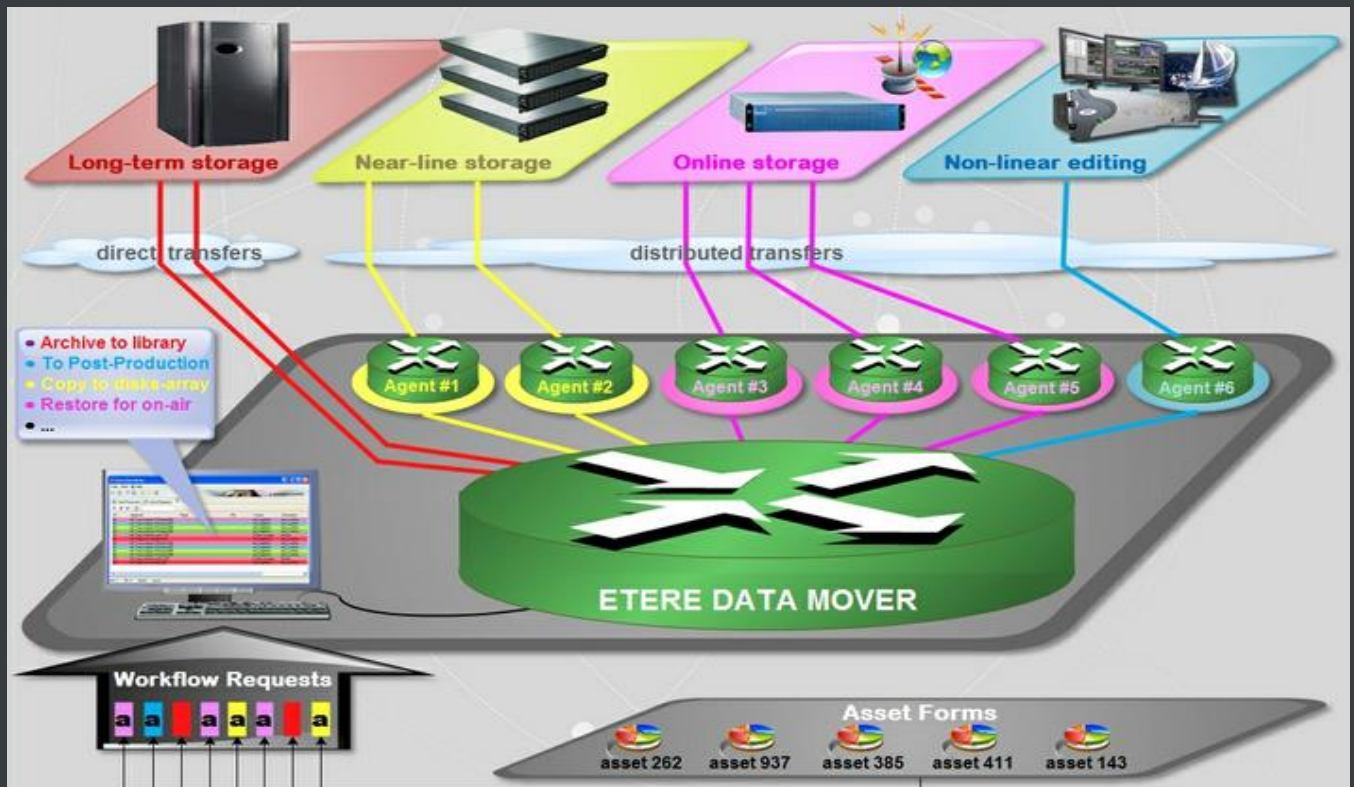
Etere's approach is oriented to "virtualize" the entire media management process, improving it with flexibility, customization and most important cost-effectiveness. Etere manages (logical) metadevices instead of (physical) devices, this approach results in a wide range of possibilities for the media management, for example, it is possible to control with one click the available space of all metadevices:

Device name	Total	Available	Free space	Notes
NLE-100	1,34 Tb	1,04 Tb	78%	2 volume(s)
NLE-220	686,50 Gb	535,78 Gb	78%	1 volume(s)
NLE-350	2,01 Tb	1,56 Tb	78%	3 volume(s)
OmneonLR			0%	1 of 1 volumes are unavailable
P2 Storage Server	4,69 Tb	3,66 Tb	78%	7 volume(s)
VS-MTX1	Not available	0,00 b	0%	
VS-MTX3	465,75 Gb	203,47 Gb	43%	

Data Mover is the application used to perform the physical storage and retrieval of video files, a typical Data Mover operation would be to move a video clip from a video server to an archive based on custom actions which are defined and executed via workflow.

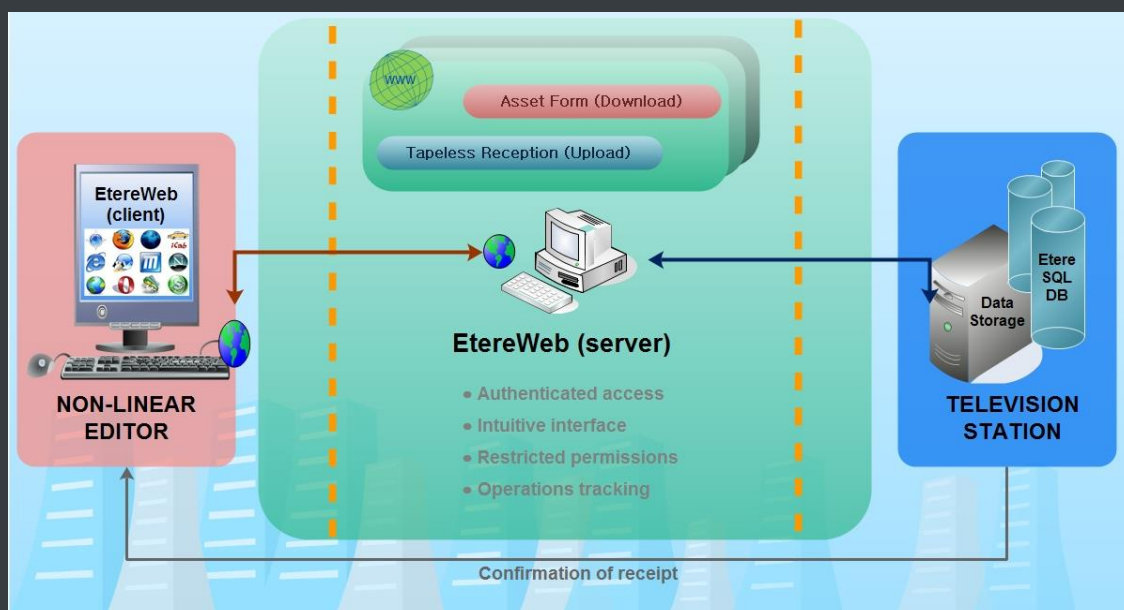
▼ 2.5.3 Distributed parallel transfers

Data Mover is capable to provide both, distributed processing for using an independent agent per data transfer and parallel processing for simultaneously performing different instances of one data transfer; these features will allow stations to exploit high computing resources to use a single workstation to perform multiple transfers, thus enhancing the flexibility, scalability and fault-tolerance of the entire Etere system.

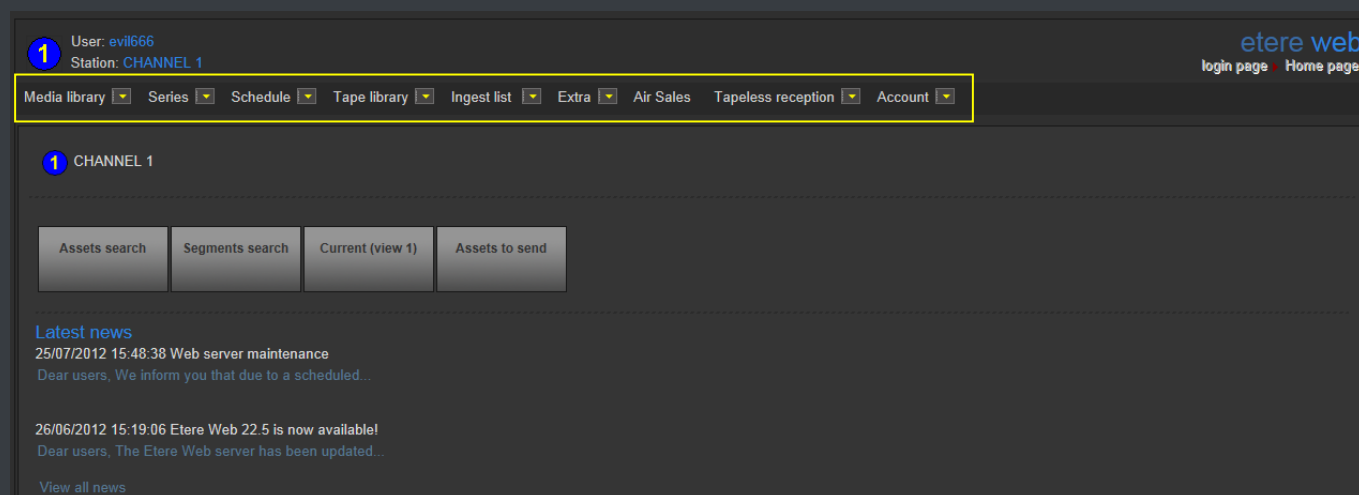


▼ 2.7 ETEREWEB: Post-Production Integration

Etere's NLE integration will allow stations to achieve a tight integration with NLE systems, without using insecure "hot folders" or "ftp open sites" but including full tracked uploads (i.e. digital receipt of files) and immediate workflow triggering. EtereWeb is best solution for integrating NLE systems (e.g. FCP, Avid, Edius) with the station's broadcast workflow; it provides non-linear editors with an authentication web portal for managing media contents through a user-friendly interface:



EtereWeb web service supports all major browsers including Microsoft Internet Explorer, Mozilla Firefox and Apple Safari; thus ensuring the reliability and quality of the service. EtereWeb integrates the latest streaming technologies for video distribution and a comprehensive rights management system that gives to authorized users the possibility to access via web to a user-friendly interface:



▼ 2.7.1 Authenticated access and rights

In order to ensure that only authorized persons access the web service, EtereWeb counts with an encrypted authentication method on which users must count with a username and password in order to enter the web portal:

Personal Data, michael, CHANNEL 1

File Tools Help

Code DevilsAgency

Search Personal Data Form Invoicing Data Other data Banks Contacts Web and Rights Proposal

User Name evil666

PASSWORD

Virtual Document

▼ 2.7.2 Digital Delivery

Tapeless Reception is an extension of **EtereWeb** designed with the purpose of offering an efficient solution for digital content delivery between external agencies and stations, it integrates the latest streaming technologies for video distribution and a comprehensive rights management system that gives to authorized users the possibility to access via web to a user-friendly interface:

Sent Assets

(Hide search panel...)

Code

Title

Date

Search Reset

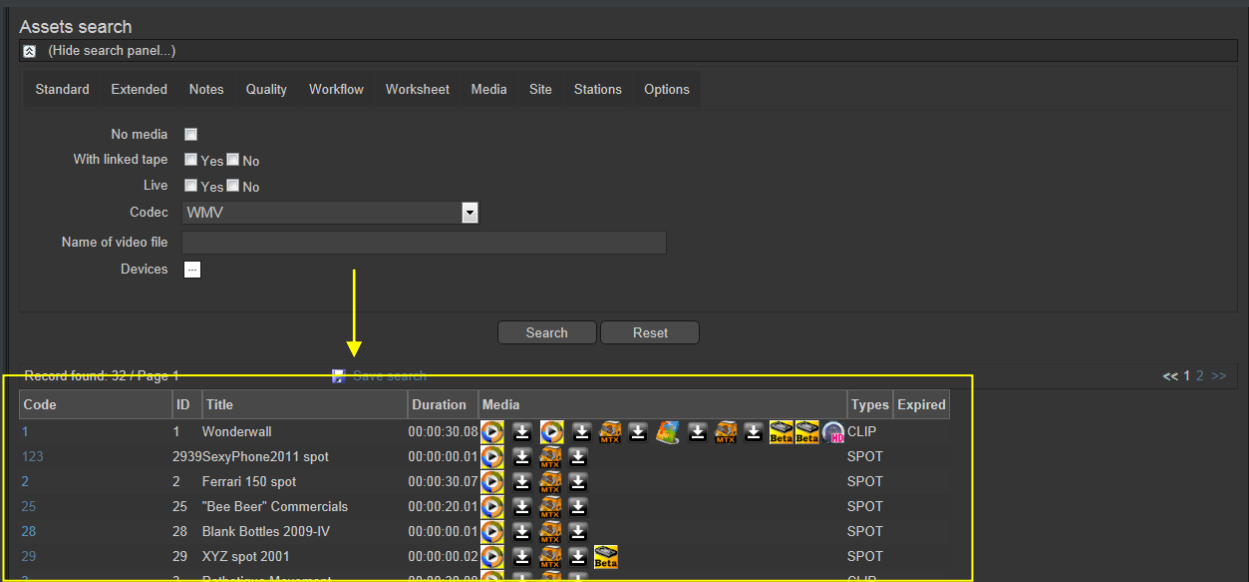
Code	Description	Scheduled arrival	
28	Blank Bottles 2009-IV	01/09/2010	Select
PromoE02	PROMO EtereTV 002	30/04/2010	Select
3082	"Bee Beer" 2012 (1st-quarter)	19/01/2010	Select
ADV-0001	New Collection "EMO CLOTHES" 2010-I	31/12/2009	Select
3065	Testing Advertising Commercial 01	31/12/2009	Select
PromoE03	PROMO EtereTV 003	01/12/2009	Select
41	Alejandro Sanz - Mi soledad y yo	20/11/2009	Select
55	Cuenta la historia	20/11/2009	Select
VirtualAsset01	Wonderwall	04/08/2009	Select

Etere provides **Tapeless Reception** to allow remote clients to deliver digital content into the library, this web portal will permit other station's areas (e.g. NLE systems, News providers, MAM systems) to easily and safely upload content (and its related metadata) into a web server; once content is delivered (i.e. uploaded), a post-upload workflow (e.g. nearline archiving) is automatically triggered and a confirmation email is sent to the deliverer (attaching a proxy video) and the station operator.

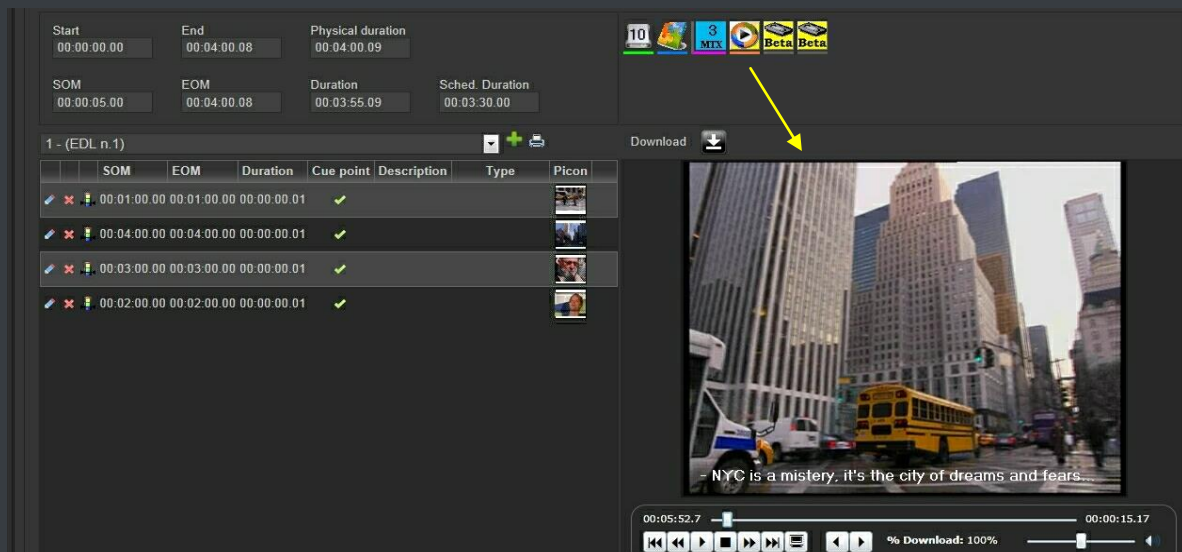
Additionally, a customizable security policy will allow the station to determine different levels for accessing the files delivered through the web portal, thus making possible, for example, to dictate that a certain web user (e.g. NLE system) will be allowed to retrieve only its own delivered files whereas another web user (e.g. MAM system) to retrieve its own delivered files and also other user's files.

▼ 2.7.3 Search, retrieval and preview

The Quick and robust search engine of **EtereWeb** allows users to easily search and preview assets, even during the search:



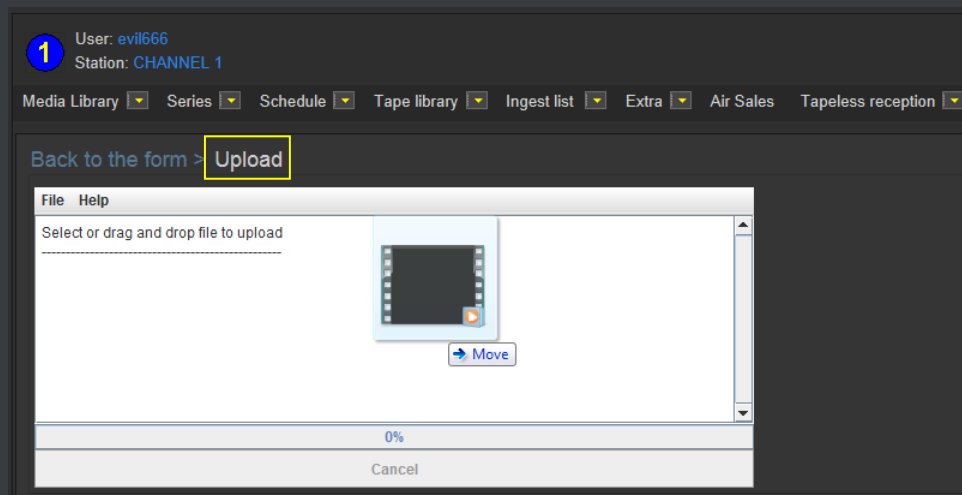
The Media tab holds information regarding the media associated to the asset, time code details and EDL configuration. By double clicking on any media item, if available, it will be available the preview and download of the asset:



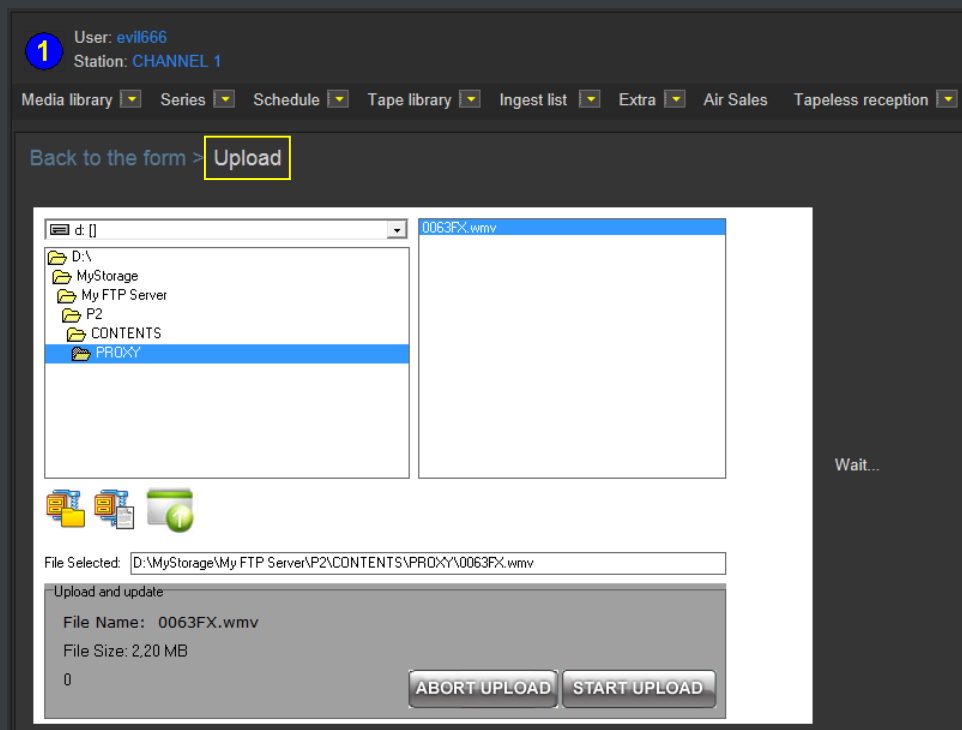
▼ 2.7.4 Selective upload interface

EtereWeb allows uploading media files into the server through a simple and intuitive wizard procedure. Depending on the upload interface set in the system, it will be possible to upload the media file using either a java-applet or an active-x interface:

- **Java-Applet:** This interface allows dragging and dropping the media file(s) to be uploaded from the file explorer into the web browser:



- **Active-X control:** This interface allows browsing for the media file(s) to be uploaded, being also possible to create a zip file for uploading an entire directory:



▼ 2.7.5 Pre and Post upload workflow triggering

EtereWeb allows setting different workflows to be launched at different stages of the web management, for example, it is possible to configure the following workflows:

- **Pre-upload workflow:**

Web Settings	
SQL Server	ETERES1
Database	
Database name	EtereMichael
Login	sa
Password	*****
Historical Database	
Database name	EtereMichael_historical
Login	sa
Password	*****
Paths	
EtereWeb	C:\inetpub\wwwroot\EtereWeb\
Deny contemporary access with same account	False
Etere Web Services	C:\inetpub\wwwroot\EtereWSApi\
Creative Area	C:\inetpub\wwwroot\CreativeArea\
Tapeless reception	C:\inetpub\wwwroot\Tapeless\
Workflows	
EtereWeb	CC - WebRpOrganize
Creative Area	[none]
Tapeless reception	[none]
Request for File Download	CC - Download Request
Tapeless reception	

- **Post-upload workflows:**

Personal Data, michael, CHANNEL 1

File Tools Help

Code DevilsAgency

Search Personal Data Form Invoicing Data Other data Banks Contacts Web and Rights Proposal

Groups Agencies

Options

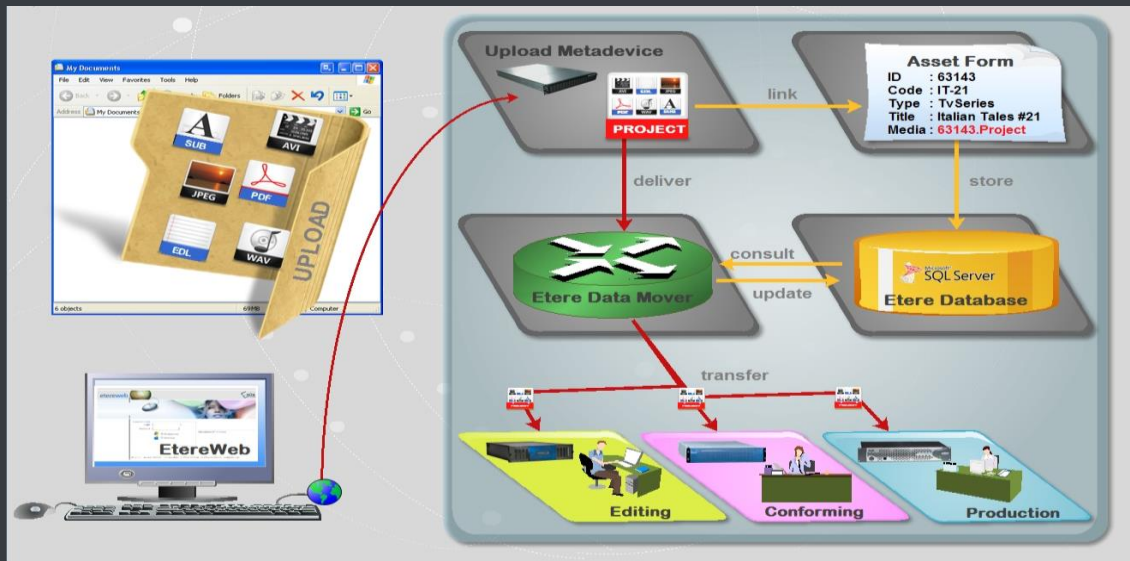
Language english

Post-upload workflow

- ☒ CC - QualitySet (Manual)
- ☐ MM - COPYVACP BMS to HR
- ☐ MM - XCOD MXF to WMV (RO)
- ☐ MM - XCOD MXF to WMV
- ☐ MM - COPY OMN1 to OMN2
- ☐ MM - XCOD MXF to WMV (FTI)
- ☐ MM - COPYBALANCED on NL
- ☐ MM - COPY BMS to HR
- ☐ MM - COPYSDI BMS to K2

▼ 2.7.6 Multiple file upload

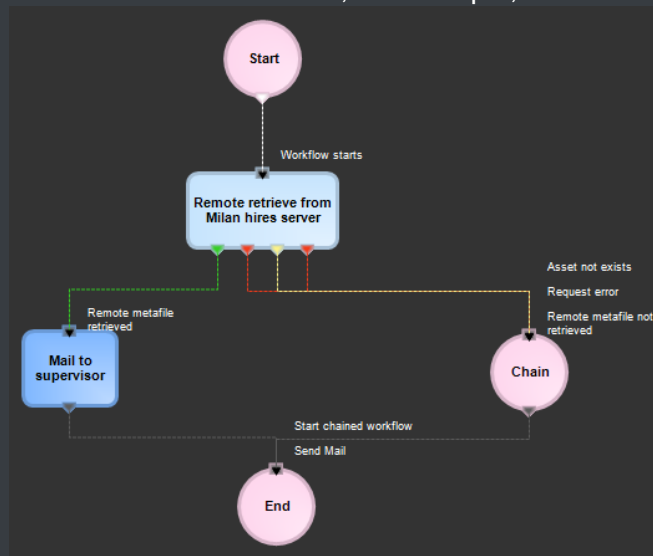
EtereWeb supports not only uploading multiple files with a simple drag and drop action, but also manage them as a single metafile:



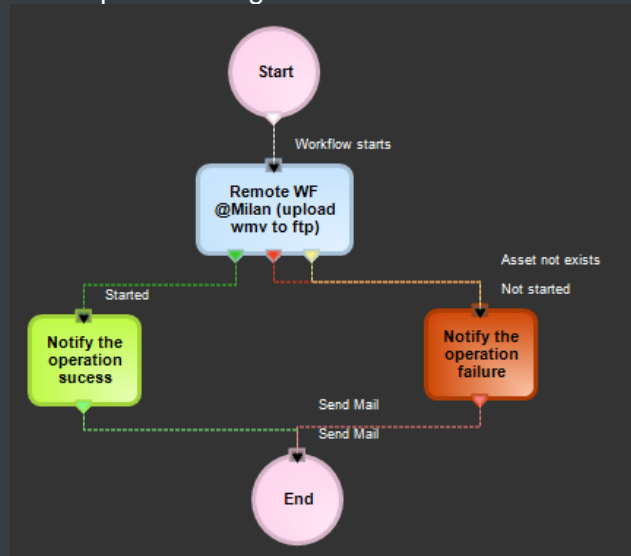
This feature allows NLE systems to, for example, upload into the station's server all the files which make part of a project (e.g. production of promos, conforming of separate scenes, editing of source material, etc.) and deliver them to the related department with a single click and with the reliability of a workflow management.

▼ 2.7.7 Workflow integration with NLE systems

Thanks to the file-based approach of its media management, EtereWeb supports interfacing centralized NLE systems (Avid Transfer manager, Final cut pro server) via workflow. With Etere, it will be possible to transfer video files from and to NLE systems automatically via workflow, these workflows can be attached, for example, to assets which requires editing:



(remote retrieve from a federated system)



(remote upload to ftp)

▼ 2.7.8 Centralized monitoring

EtereWeb provides administrators with two key sections from which they will be able to consult:

- **Login Report** : Detailed information about user-specific accesses:

User: evil666
Station: CHANNEL 1

login page Home page Login report

Media library Series Schedule Tape library Ingest list Extra Air Sales Tapeless reception Account

Login report

Load

Search (Company Name/Surname)

Search

Code	Company Name/Surname	Data Login	Data LogOut	Time in Etere Web
Devil's Agency	Devil's Agency	25/07/2012 15:49:00	25/07/2012 15:59:00	00:10:00
JonesAndJones	Jones & Jones	26/06/2012 16:49:04	26/06/2012 16:49:25	00:00:20
Michael	Vasquez	25/07/2012 15:19:50	25/07/2012 15:19:53	00:00:02
Devil's Agency	Devil's Agency	25/07/2012 15:17:44	25/07/2012 15:27:44	00:10:00
Mark	Fellings	25/07/2012 13:29:49	25/07/2012 13:29:53	00:00:03
Devil's Agency	Devil's Agency	25/07/2012 13:22:31	25/07/2012 13:32:31	00:10:00
System admin	System admin	20/07/2012 17:40:55	20/07/2012 17:50:55	00:10:00
Devil's Agency	Devil's Agency	23/07/2012 17:28:42	25/07/2012 13:22:32	1d 19:53:49
Devil's Agency	Devil's Agency	23/07/2012 15:53:21	25/07/2012 13:22:32	1d 21:29:10
Devil's Agency	Devil's Agency	23/07/2012 10:32:57	23/07/2012 10:42:57	00:10:00

- **User Statistics** : Overall information about daily and weekly accesses:

User: evil666
Station: CHANNEL 1

login page Home page Login report Users statistics

Media library Series Schedule Tape library Ingest list Extra Air Sales Tapeless reception Account

Users statistics

Daily info

Date: 20/07/2012

Show

No. Login per day: 41

No. Users per day: 2

No. Hours in use per day (average for login): 5h 4m

No. Hours in use per day (average by user): 14m

Monthly table

Month: July

Year: 2012

Show Export Excel

Day	Users No.	Login No.	Use Time (User Average)	Use Time (Login Average)
1	0	0	0m	0m
2	0	0	0m	0m
3	2	44	5h 22m	14m
4	2	41	5h 4m	14m
5	0	0	0m	0m
6	0	0	0m	0m
7	1	7	90h 56m	12h 59m

▼ 2.7.9 Remote archive consultation

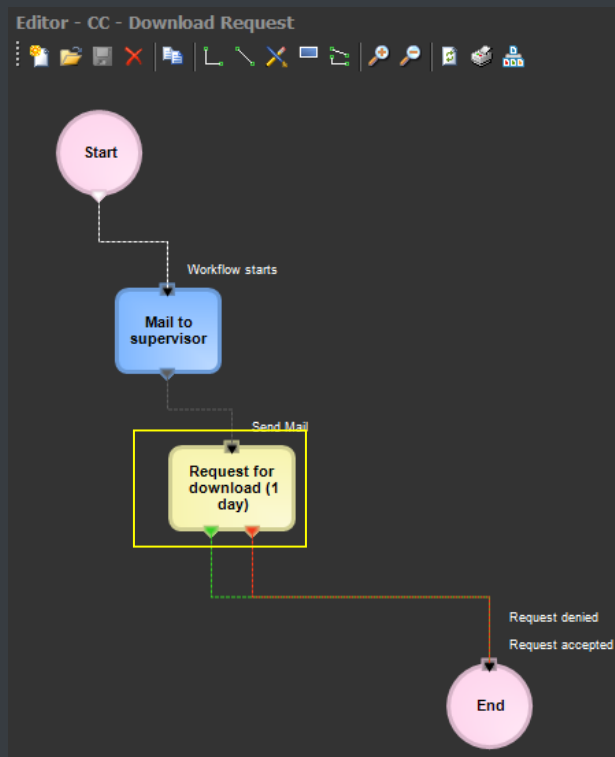
EtereWeb allows web users to check and also control the digital archive remotely via web. Web users will be provided with a fully-tracked access to the most relevant Asset Management operations through a robust search engine and including a wide set of function-specific sections (i.e. general information, media, properties, metadata, rights, technical data, workflows and much more).

Specially, a section dedicated to the media management will provide information regarding all media files associated to the asset, indicating for all of them the timecode details and EDL configuration with further preview/cut/download/upload capabilities.

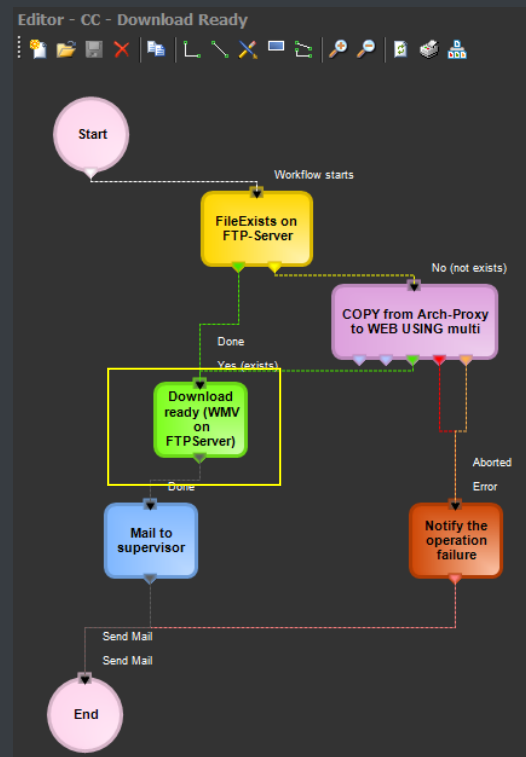
▼ 2.7.10 User Permissions

EtereWeb allow stations not only to share the right files to the right persons but it also allows sharing contents with the right permission levels; this capability is based on granting/denying function-specific permissions through Etere Worksheets, the module that allows web users to request temporary permission for specific functions (e.g. download a file linked to a certain asset):

Web requests are managed via workflow to allow a custom and automatic launch of worksheets:



(download request)



(download ready)

Supervisors count with a dedicated interface for viewing pending requests and accept/deny them:

Media Library, michael, CHANNEL 1

File Tools Show Utilities ?

CHANNEL 1

ID 1 Code 1 Title Wonderwall

Tapeless reception Technical Data SMPTE Metadata Links SIAE Operations Keys/Keyboards *People in charge Proposal

Search General Data Properties Media Workflow Resources management Secondary Events Metadata Rights management

Requester Devil's Agency Request Download metafile Codec WMV

Notes Response Request accepted

Requester Jones & Jones Request Download metafile Codec WMV

Notes Response

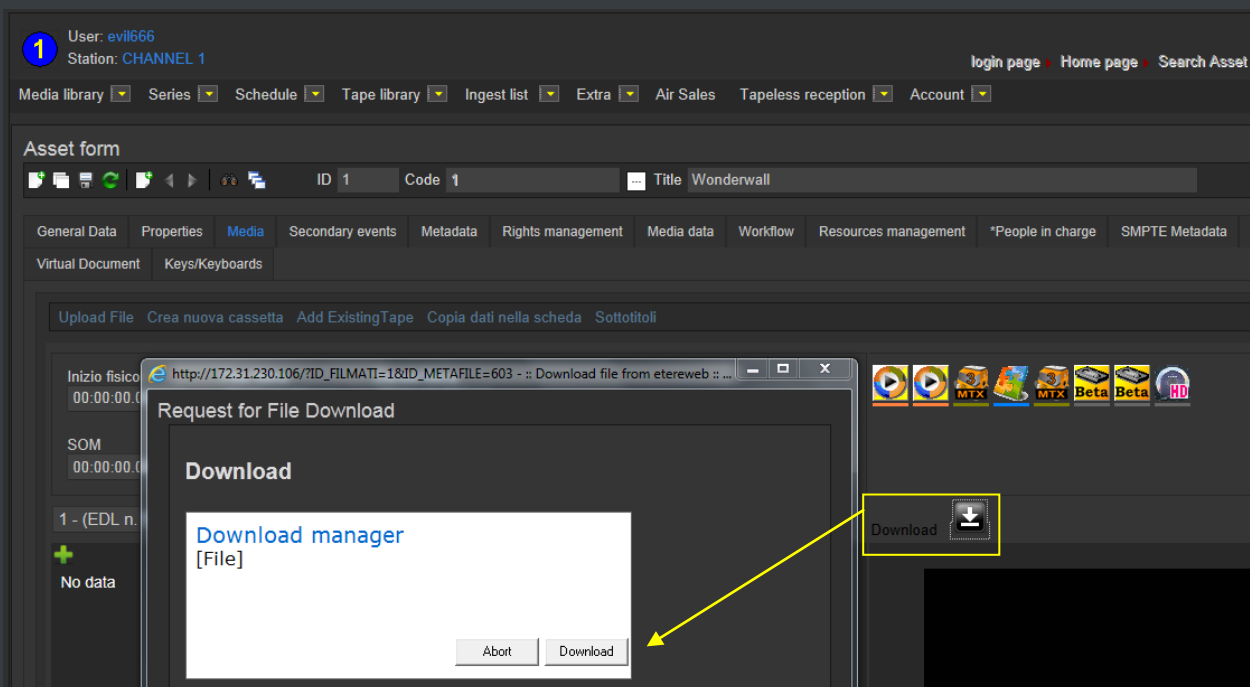
*Hide temporary rights

Requester	Request	Codec	Expiry date
Skywalker Luke	Download metafile	WMV	05/12/2124 15:18:50

Once the requested is evaluated, web-users will automatically receive an email notification containing the information (e.g. ID, codec, fixed note and an evaluation note) about the asset for which the request has been performed. The email notification will be sent to the email specified in the personal data of the web-user who performed the request, this, depending on the entity type:

From:	supervisor@mytv.com [system-profile email account]
To:	user5@agencies.com [personal-data email account]
Subject:	<p>WORKFLOW INFO</p> <p>----(workflow status report)----</p> <p>Personal data ID : 7 [personal-data code]</p> <p>workflow: CC - Download for NLE [workflow holding the web request action]</p> <p>status: Workflow active</p> <p>result: 0</p> <p>message: <empty></p>

Finally, in case the request is accepted, the web-user will be now allowed to download the requested file(s) through EtereWeb:

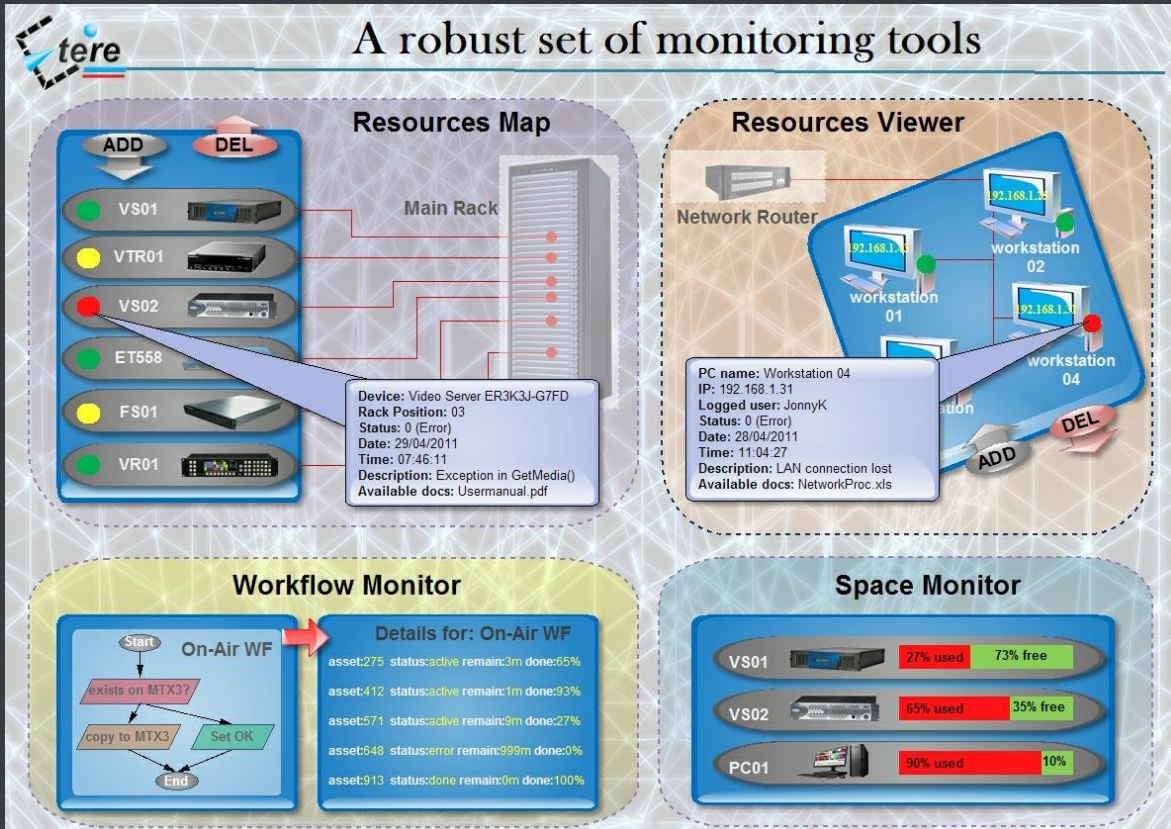


▼ 2.7.11 Security Integration

EtereWeb works perfectly behind routers so remote access and ftp transfers are drastically improved. NLE systems can deliver contents via Etere Web as a digital equivalent of physical reception, where selected people can deliver video and metadata to the station, but owing to its digital nature, operations are perfectly organized, performed and logged, avoiding loss of any content information. Moreover, as a further security level, Etere provides direct authentication of web users through the station's active directory domain.

▼ 2.8 MONITORING CONSOLE: A Complete SNMP Monitoring

The **Monitoring Console** is a tool developed to help supervisors to have a global overview of the system, permitting them to monitor any Etere module which collects and stores its management information (errors, warnings, etc.) through the locally installed **SNMP Agent** which sends messages containing this information to a remote console which in this way monitors all the modules; through this console the operator can decide about the receiving policies (content, validity, filters, etc.).



The **Monitoring Console** is a key part of the broadcasting process because it permits to have a complete report of the way the Etere modules are working, allowing to catch errors, store them in a database for a further analysis and also forward them to an another console (forward the message to the pertinent operator who is intended to solve it) and thus saving time and resources on real-time which are invaluable assets in the broadcasting business.

▼ 2.8.1 SNMP monitoring support

In order to improve monitoring of devices, modules and workflows all Etere components are automatically subscribed to an SNMP Service, so it will monitor the periodic heartbeats sent via SNMP by the components. The Monitoring Console detects missing heartbeats and sends both a visual-alarm and an e-mail notification to the operations department. Owing to the use of this feature, the general health of the Etere system can be further examined to isolate raised faults.

Snmp Snmp filter

Name

By range 0 - 99999999

ERRORS

INFORMATION

By GPI

ETERE-AUTO-FILTER

WARNING

0 - 5000

Filter name By range 0 - 99999999 Active ☒

General

Owner Description

Login name PC name

Site

Severity

☒ Information ☒ Warning ☒ Error ☒ Unknown

Error code

From 0 To 99999999

IP address

From 172.31.230.1 To 172.31.230.255

Action

☐ Manage ☐ Archive ☐ Only re-send ☒ Manage and re-send ☐ Discard

Alarm type

☒ Send email To email address michael@etere.eu

☒ Sound File Name C:\windows\media\notify.wav

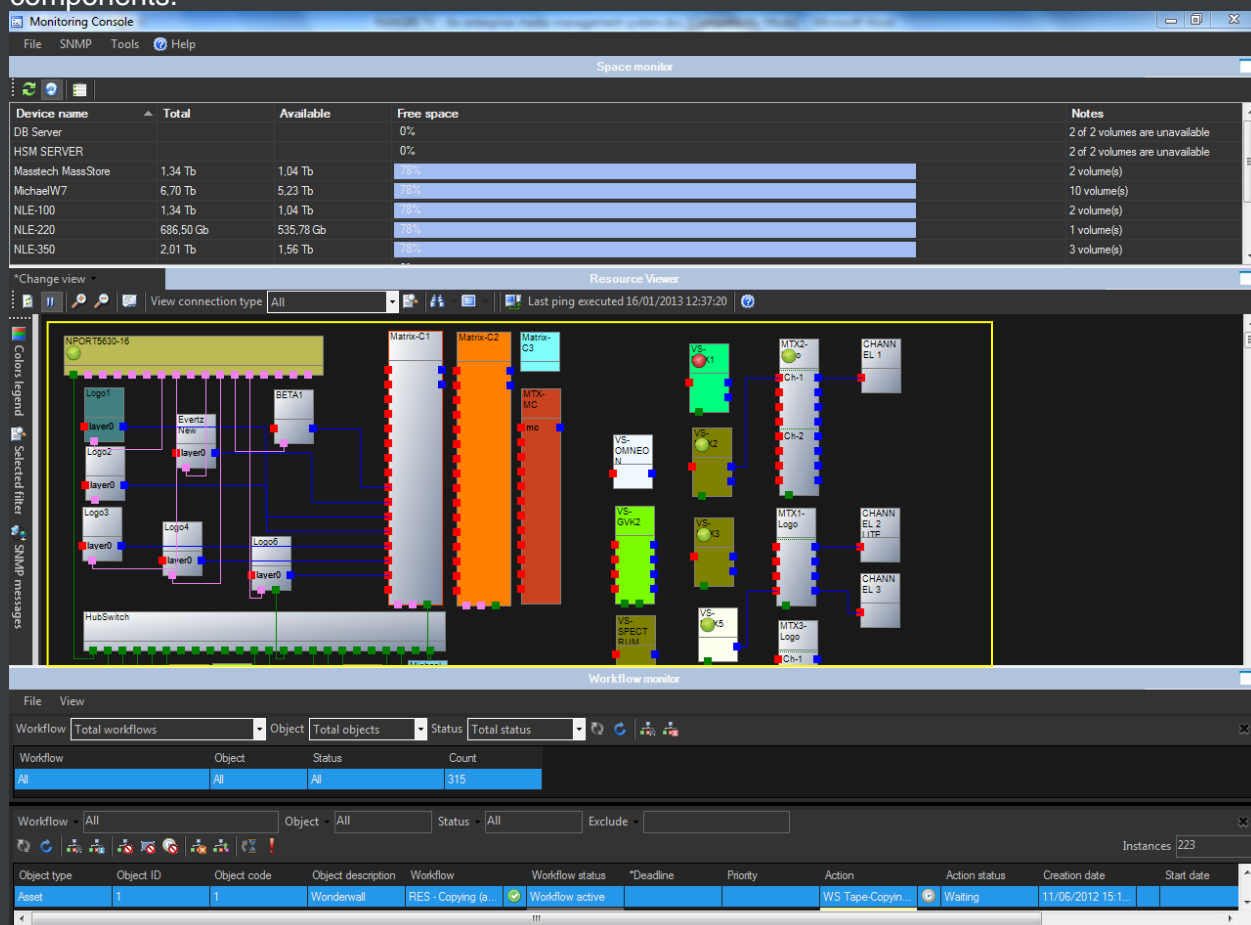
☒ GPI Device number 1

*Switches

GPI test ☐ ☐

▼ 2.8.2 Graphical real-time monitoring

In order to improve monitoring of modules and devices, all Etere components are automatically subscribed to the Etere SNMP Service, so it will monitor the periodic heartbeats sent via SNMP by the components.



▼ 2.8.3 Wide set of features

The Monitoring Console is smartly divided across different panels to allow a quick monitoring of specific functions. Tools included in this module are listed below:

Module	Description
SPACE MONITOR	Visualize the storage space of all devices for which <i>metadevices</i> are defined (e.g. video servers, workstations, servers, etc).
RESOURCE MAP	View and allocate resources (e.g. workstations) across the system, thus allowing to, for example, indicate the rack position of the workstation on which an error has occurred.
WORKFLOW MONITOR	Consult all workflows (transfers, checks, requests and much more) executed on the certain station, allowing also to view and manage them each one of them.
RESOURCE VIEWER	Show a map of all resources configured in the system, showing in real-time their connection status and SNMP messages.
STATUS BAR	Display the real-time status of monitoring background tasks such as "SNMP real-time checking", "Processes monitor", "Check pingable devices from this console", "Collect and check PC counters" and "GPI signals".

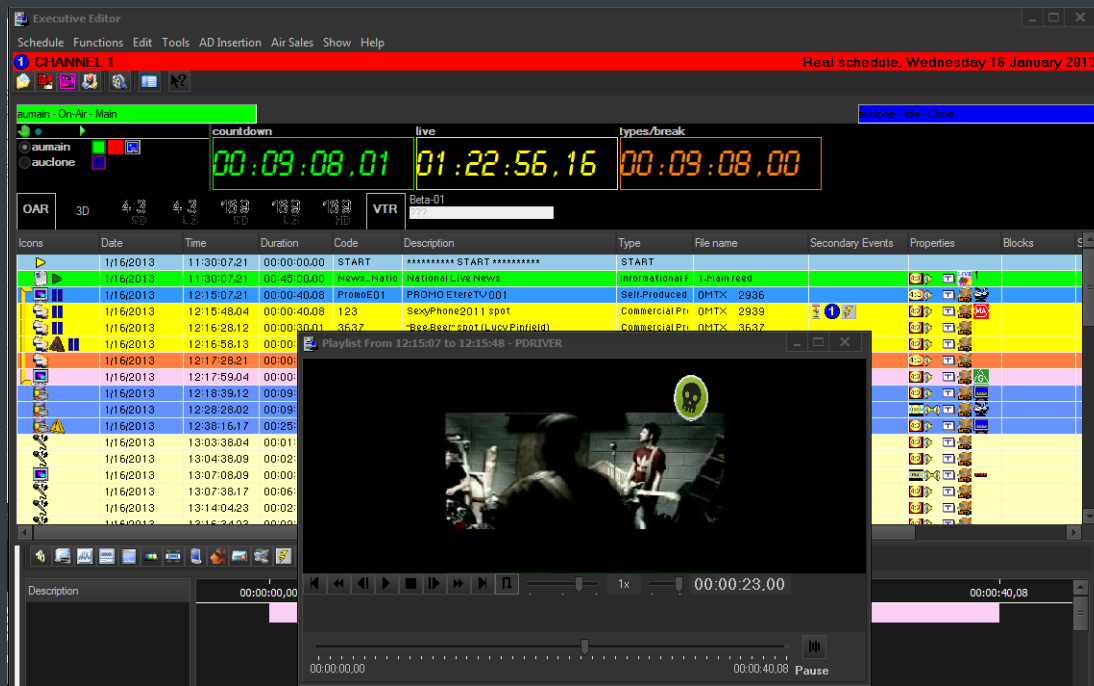
▼ 2.9 AUTOMATION: Reliable Playout System

Automation is the powerful, reliable and modular playout system able to enhance the station potential in terms of functions and workflow design, it is based on a unique approach which combines in a single product real-time device control and media asset management, offering a powerful mix of solutions and capabilities under a graphical user-friendly interface displaying for each event its source, type, description, properties, live status, secondary events, time code, GPI status, etc.:

The screenshot displays the Automation interface, which is divided into several panels. At the top, there are three large digital displays showing time and status: 'countdown' (00:13:01.13), 'live' (01:26:50.03), and 'types/break' (00:13:01.12). Below these, there are buttons for 'OAR', '3D', '4:3', '4:3', '10:8', '10:8', '10:8', and 'VTR'. The main panel is a table with columns: Icons, Date, Time, Duration, Code, Description, Type, File name, Secondary Events, Properties, and Blocks. The table lists various events, including 'START', 'News_Natio', 'PromoE01', 'SexyPhone2011 spot', 'Bee-Beer spot (Lucy Pinfield)', '2010L-Killer cigarettes', 'Ferrari 150 spot', 'On the waterfront', 'Deep Trip', 'Adagio', 'Don't go away', 'Wonderwall', 'Alejandro Sanz-Mi soledad yyo', 'Stupid girl', and 'Lluvia de estrellas'. Below the table, there is a detailed view of a selected event, showing a timeline from 00:00:00,00 to 00:00:40,08. The timeline includes a 'Logo' event, a 'Secondary Object' event, and a 'Router' event. The 'Secondary Object' event is highlighted with a blue box and a red arrow pointing to it from the table. The 'Router' event is also highlighted with a blue box and a red arrow pointing to it from the table. The 'Logo' event is highlighted with a blue box and a red arrow pointing to it from the table. The 'Secondary Object' event is highlighted with a blue box and a red arrow pointing to it from the table. The 'Router' event is highlighted with a blue box and a red arrow pointing to it from the table.

▼ 2.8.1 Secondary Events Manager

Automation manages all the secondary events intended to be transmitted by dedicated devices (e.g.: Logo Generators, Crawl Generators, Subtitlers, etc.) with a simple graphical tool, allowing previewing secondary events in low res before their playout through a browsing application:

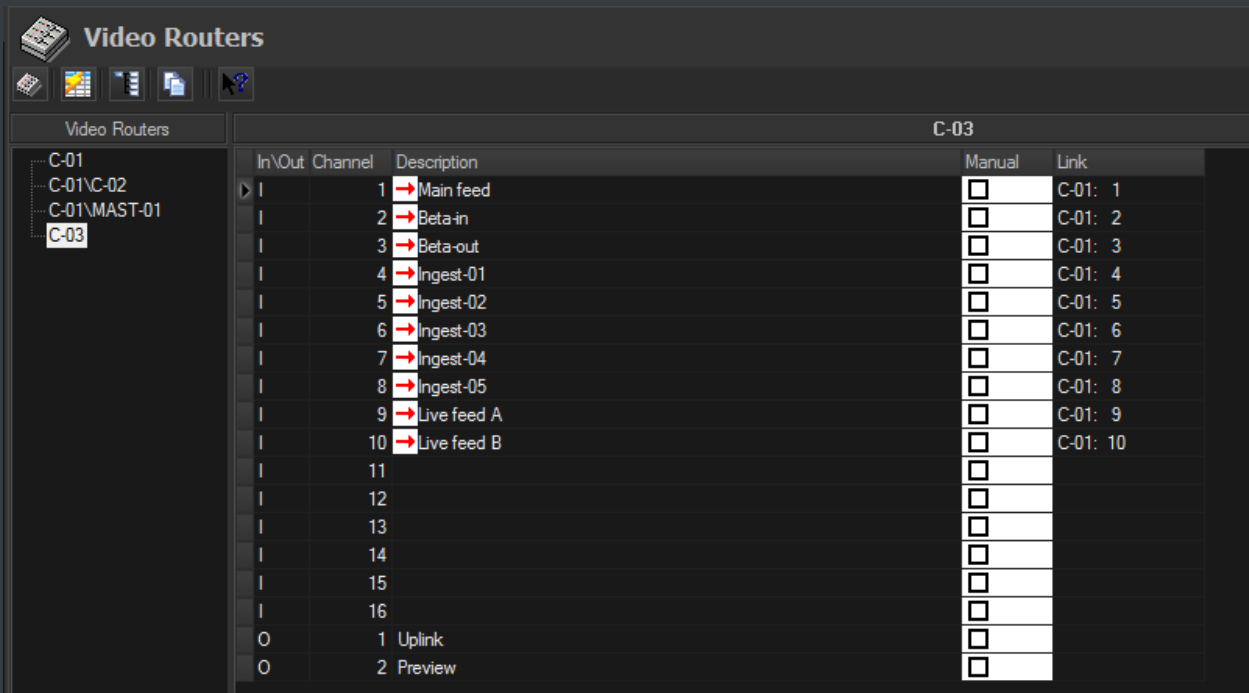


▼ 2.8.2 Live Events Management

Automation offers complete support for live events present on the daily schedule, being possible to manage various different live inputs that can be switched at any time, few minutes before the event broadcasting or even during its transmission:



Additionally, Etere allows managing one video router per automation, being possible to create links between routers so when a channel is switched in the Main Router; the equivalent channel is also switched in the Backup Router:



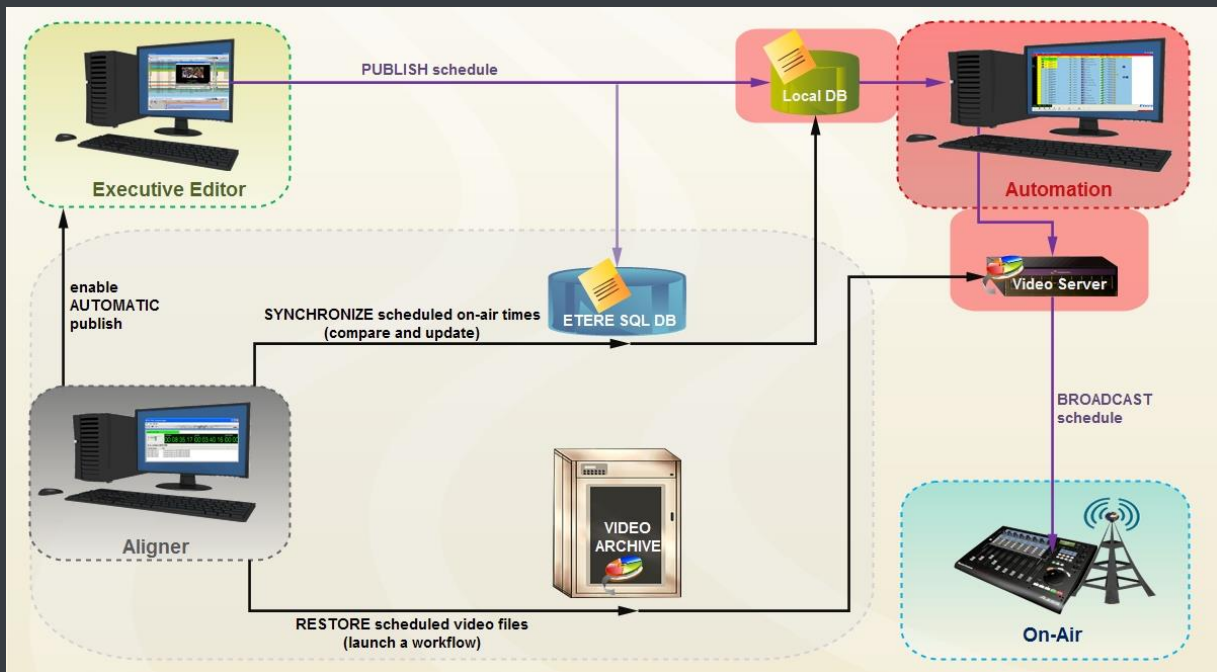
▼ 2.8.3 As-Run Logging

The ability to export As-Run logs containing the schedule “actually” transmitted allows an easy reconciliation between planned and real playout, being possible to send to multiple (UNC and FTP) destinations a frame-accurate log in any of the available formats:

```
[ - ] 04/28 15:09:20.593 | [Log Started]
[ APP ] [2010-04-28 15:09:20.21] AUTOMATION RESET
[ APP ] [2010-04-28 15:10:31.05] AUTOMATION IS ONAIR
[ CLIP ] [2010-04-28 15:10:30.17Y, 210136785149, 22, 0LIVE00000, Live News, F, 00:00:00.00, 00:59:59.24, 01:00:00.00]
[ CLIP ] [2010-04-28 16:10:01.19Y, 210135546001, 28, 0MCL CBBot, B-Bottles, F, 00:00:00.00, 00:00:08.18, 00:00:08.19]
[ CLIP ] [2010-04-28 16:17:03.21Y, 210136107001, 70, 0MCL JeuxD, Jeux D'E, T, 00:00:00.00, 00:30:00.00, 00:30:00.01]
[ CLIP ] [2010-04-28 16:47:08.02Y, 100000008996, 3, 0MCL PathMov, PathMov, T, 00:00:00.00, 00:08:12.24, 00:08:13.00]
[ APP ] [2010-04-28 16:48:13.20] PLAYOUT COMMAND: STILL
[ APP ] [2010-04-28 16:48:14.19] PLAYOUT COMMAND: RESTART_FROM_CURRENT
[ APP ] [2010-04-28 16:48:20.07] PLAYOUT COMMAND: STILL
[ APP ] [2010-04-28 16:48:23.01] PLAYOUT COMMAND: RESTART_FROM_NEXT
[ CLIP ] [2010-04-28 16:48:23.01Y, 100000008998, 32, 0MCL Minuet, Minuet, T, 00:00:00.00, 00:11:10.24, 00:11:11.00]
[ CLIP ] [2010-04-28 16:52:12.06Y, 100000009000, 33, 0MCL Prima, Primavera, T, 00:00:00.00, 00:09:19.24, 00:09:20.00]
[ CLIP ] [2010-04-28 16:54:13.12Y, 100000009003, 49, 0MCL Vivace, Vivace, T, 00:00:00.00, 00:04:59.24, 00:05:00.00]
[ APP ] [2010-04-28 16:55:16.11] PLAYOUT COMMAND: SKIP
[ CLIP ] [2010-04-28 16:55:16.11Y, 100000009005, 51, 0MCL OdeJ, Ode Joy, T, 00:00:00.00, 00:04:59.24, 00:05:00.00]
[ CLIP ] [2010-04-28 16:57:46.19Y, 100000018164, 12, 0LIVE00001, Melody01, T, 00:00:00.00, 00:00:14.24, 00:00:14.15]
[ APP ] [2010-04-28 16:59:53.01] PLAYOUT COMMAND: EMERGENCY_LIVE_START
[ APP ] [2010-04-28 17:05:57.05] PLAYOUT COMMAND: EMERGENCY_LIVE_END
[ APP ] [2010-04-28 17:15:35.06] AUTOMATION STOP
Log Closed
```

▼ 2.8.4 Synchronized broadcast

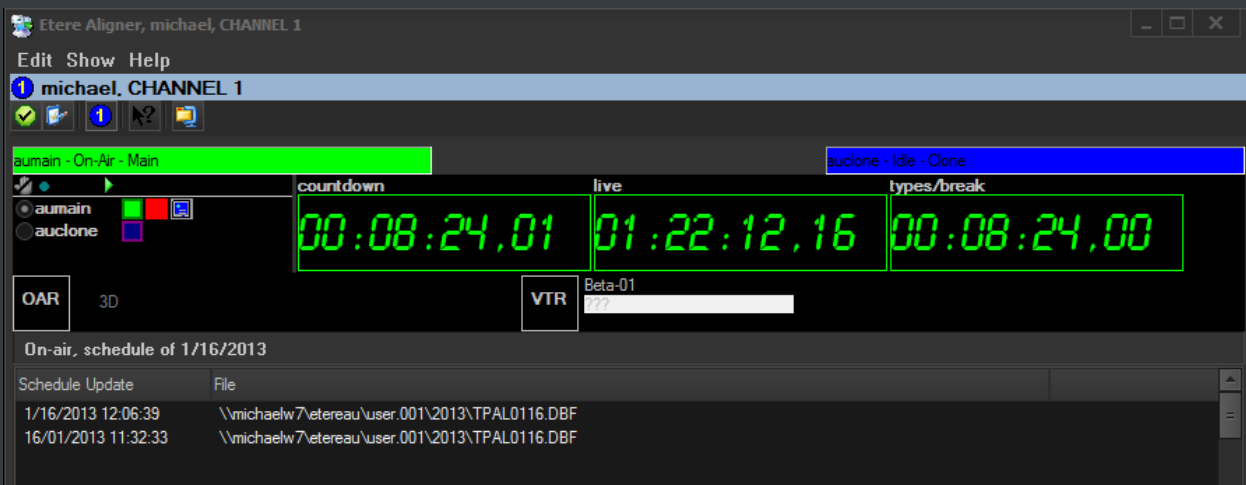
Aligner is the application that maintains the published schedule constantly synchronized, it aligns the independent automation schedule with the Etere stored schedule, this operation is very important for the broadcast process since published on-air timings may vary and will need to be updated:



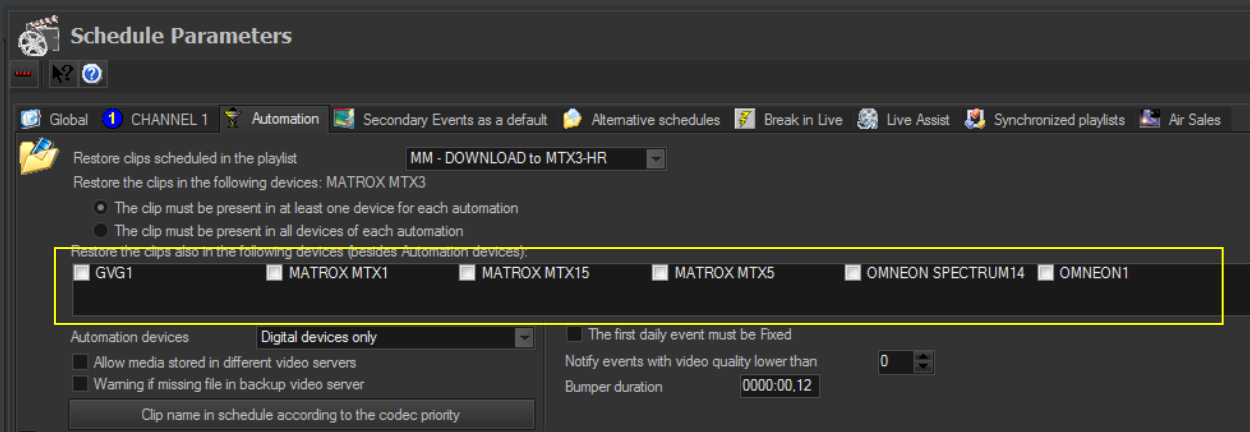
Etere Aligner provides stations with the following key features on managing broadcast schedules:

- Automatic publishing of the schedule by Executive Editor,
- Ensure consistency of the published schedule by updating it with last changes,
- Launch workflows automatically to restore video clips scheduled to go on-air.

In the Parameters it's possible to specify that the system also carries out publication of the schedule at each **Etere F90** request.



Moreover, **Etere Aligner** allows restoring via workflow all those video files associated to scheduled events and which are missing in the remote archive, either manually or automatically:



▼ 2.10 AIR SALES: Commercial Traffic Management

Etere Air Sales is a complete, modular and scalable traffic system for the management of the planning and commercial processes of a broadcaster. From planning to playout, it provides specialist application modules to manage sales, planning, presentation, scheduling and invoicing of commercial contents.

▼ 2.10.1 Weekly schedule

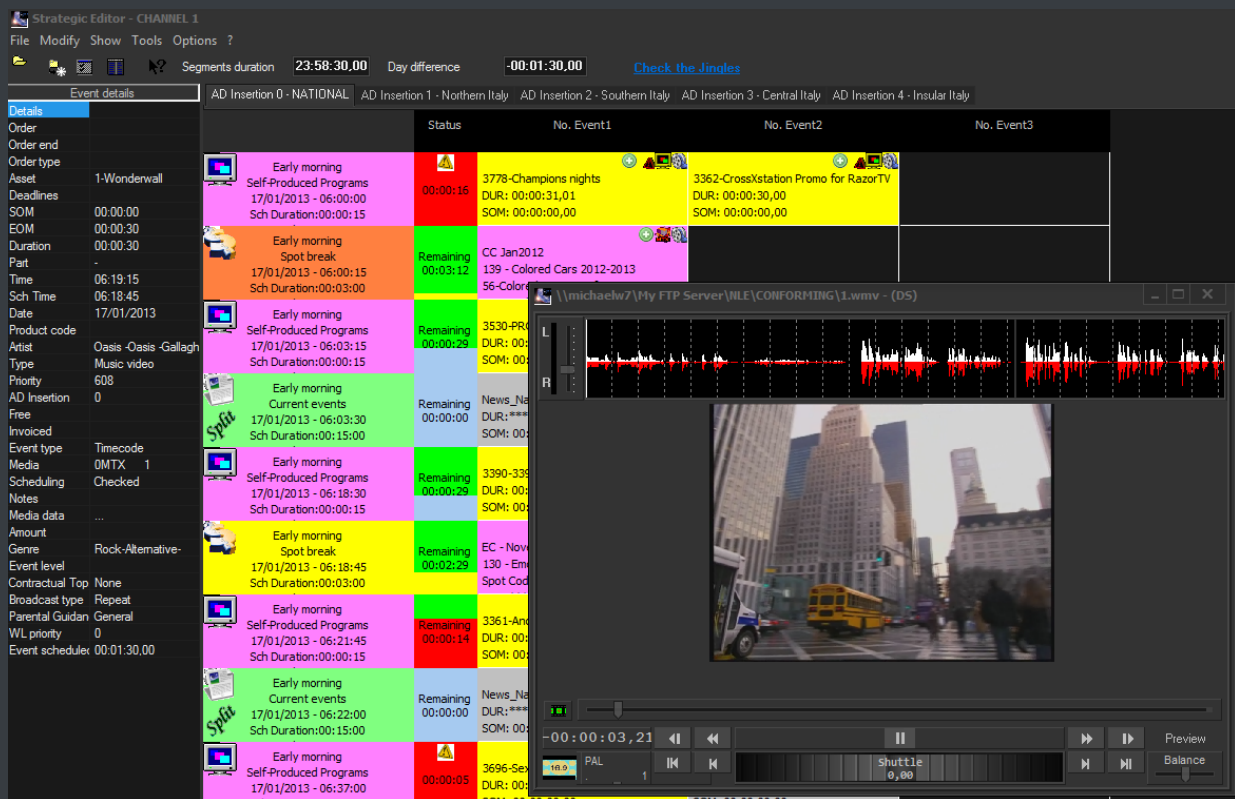
Weekly Schedule is the module that permits to build long-term and frame-accurate schedule grids that will define the traffic playlist, this schedule grid is formed by program blocks which at their time are formed by program segments defined by specific properties (i.e.: time range, duration, program type, price list, etc.):

The screenshot displays the 'Weekly Schedule' application window. The title bar reads 'Weekly Schedule'. The menu bar includes 'File', 'Options', 'Tools', 'Show', and 'Help'. Below the menu bar, the channel name 'michael. CHANNEL 1' is shown. A toolbar with various icons is present. The main area is a grid showing the schedule for 'Main' (UTC+10:00, Canberr) from 16/01 to 22/01. The grid is organized by time slots (06:30:00 to 20:00:00) and days. The schedule is color-coded: green for 'Early morning', cyan for 'Day time', purple for 'Afternoon', and blue for 'Evening'. A red border highlights the 'Early morning' slot on 18/01. On the left, a 'Properties' panel shows details for a selected block: 'Block Name: Early morning', 'Date: 18/01/2013', 'Start time: 06:00:00', 'End Time: 09:00:00', 'Duration: 03:00:00', 'Source: Schedule of 18/01/2', 'ID Block: 558', 'Event Presence: No', and 'Station: CHANNEL 1'. Below the properties panel, a list of program segments is shown with their start and end times.

Time	16/01	17/01	18/01	19/01	20/01	21/01	22/01
06:30:00	Early morning	Early morning	Early morning	Early morning	Early morning	Early morning	Early morning
07:00:00							
07:30:00							
08:00:00							
08:30:00							
09:00:00							
09:30:00	Day time	Day time	Day time	Day time	Day time	Day time	Day time
10:00:00							
10:30:00							
11:00:00							
11:30:00							
12:00:00							
12:30:00							
13:00:00							
13:30:00							
14:00:00							
14:30:00							
15:00:00							
15:30:00							
16:00:00							
16:30:00	Afternoon	Afternoon	Afternoon	Afternoon	Afternoon	Afternoon	Afternoon
17:00:00							
17:30:00							
18:00:00							
18:30:00	Evening	Evening	Evening	Evening	Evening	Evening	Evening
19:00:00							
19:30:00							
20:00:00							

▼ 2.10.2 Strategic Editor

The **Strategic Editor** module provides a high flexibility to the scheduling process, based on a schedule grid structure; it integrates schedules with the assets' database, ensuring a rock-solid scheduling module where only valid events can be scheduled. Moreover, **Strategic Editor** features various facilities such as multiple color displays, intuitive events selection, automatic rights verification, etc.



▼ 2.10.3 Sales

The **Sales** module allows elaborating proposals that includes multiple product details which can be made up by multiple assets (e.g.: for different channels or periods).

A customer-tailored elaboration of Sales proposals is possible thanks to the use of flexible schedule grids improved with key booking features such as an automatic pricing based on day parts (e.g.: breakfast, lunch, dinner and late-night) and a powerful spot placement based on key scheduling criteria (i.e.: top, bottom, priority, rotation or optimization).

Sales CHANNEL 1

Proposal -> Running

Search General Lines 7*Lines model 1

Channel	From	To	Description	Duration	Total	Unit price	Scheduling type	P/E/M	Amount
CHANNEL 1	01/12/2012	31/12/2012	K-Cigarettes Dec2012	00:00:30.00	50	1.149,00	Priority	Pad	57.450
CHANNEL 1	01/12/2012	31/01/2013	K-Cigarettes Jan2013	00:00:30.00	100	1.149,00	Priority	Pad	114.900

Total to schedule: 150 Total cost: 0.00 Total: 172.350,00 Total discount: 5.170,50

General Asset Options

Scheduling type: ☒ Priority ☐ Rotation ☐ Optimization ☐ Fixed time

Filler type: ☒ None ☐ Filler ☐ Add to fillers list

Priority: 500 WL: 60 Hide from Air Sales Scheduler

From date: 01/12/2012 To date: 31/12/2012

Start time: 06:00 End time: *(+1d) 06:00

Spot Code: STAND Duration: 00:00:30.00

Description: K-Cigarettes Dec2012

Total to schedule: 50 Max daily run: 8

Product code: 27545 SMOKING ITEMS

Production: 0,00 Dubbing: 0,00

Mode: ☒ Calculated unit price 1.149,00 ☐ Free

☐ Calculated unit price and fixed

☐ Unit manual price 0,00

☐ Calculate from this total 0

Blocks

Name	Types	Price list
Afternoon	COMM,SELF,S...	16:00-18:00 Afternoon...
Close down	SELF,SPOT,P...	02:00-06:00 CloseDay...
Day time	COMM,SELF,S...	09:00-16:00 Day time...
Early morning	COMM,SELF,S...	02:00-06:00 CloseDay...
Evening	COMM,SELF,S...	18:00-20:00 Evening...
Late night	COMM,SELF,S...	24:00-02:00 Late nig...
Post-Prime	COMM,SELF,S...	23:30-00:00 PostPrim...
Pre-Prime	COMM,NEWS:...	20:00-20:30 PrePrime...
Prime time	COMM,PROG:...	20:30-23:30 Prime,W...

Days: ☒ Sunday ☒ Monday ☒ Tuesday ☒ Wednesday ☒ Thursday ☒ Friday ☒ Saturday

▼ 2.11 MONEY: Billing and Bookkeeping

The invoicing process is the final -and most delicate- stage in the commercial broadcast chain, where all commercial events are reconciled with the accounting department, at this stage, the **Invoicing** module, is the section dedicated to generate, settle and track invoices, it is tightly integrated with all Etere modules to permit a centralized management of invoices including a set of tools that permits operators to easily bill invoices and pay salesmen commissions in just few steps:

Invoicing

File ?

Automatic Manual Export

Invoice Tools

Document No. 106 Invoice Date 16/01/2013

Customer: EmoClothes Company Name: Emo Clothes

Payment: Cash Bank

Disc.t: 0 % Notes:

Order: EC - JanFeb2013 Related credit note: 0 Module type: Automatic invoice module

Lines Tax Data Deadlines

Description	Qty	Amount	Disc.t	Total
Order: 131-EC - JanFeb2013	0	€0.0000	0	€0.00
Notes:	0	€0.0000	0	€0.00
Total order: €38.00	0	€0.0000	0	€0.00
Events Transmitted in the period :01/01/2013 - 07/01/2	0	€0.0000	0	€0.00
Production Exp. 01/01/2013	1	€11.0000	0	€11.00
Dubbing Exp. 01/01/2013	1	€33.0000	0	€33.00
Production Exp. 01/02/2013	1	€11.0000	0	€11.00
Dubbing Exp. 01/02/2013	1	€33.0000	0	€33.00

Add

Delete

Cancel

Apply

Invoice charges

Money has a wide set of tools including the **Deadlines Management** module, which allows settling outstanding invoice deadlines (+) and credit note deadlines (-):

Etere Money - Deadlines - ETERE LICENSE - 2013

SelectEdit

Expiry Date

Document date

Payment date

From

To

Customer Code/Supplier

Payment:

Document No.:

Paid

Unpaid

All

Credits

Debits

All

Search

...	Transaction N	Year	Account Code	Cus/Sup	Company Name	Amount	Expiry Date	Document date	Payment date	Docur
	23	2012	1 1010	ColoredCar	ColoredCar	52,50	22/12/2012	22/11/2012		94
	30	2012	1 1010	ColoredCar	ColoredCar	71,34	22/12/2012	22/11/2012		101
	27	2012	1 1010	DevilsAgency	Devil's Agency	17,84	22/12/2012	22/11/2012		98
	25	2012	1 1010	RazorTV	RazorTV	891,68	22/12/2012	22/11/2012		96
	32	2012	1 1010	Laphroaig	Laphroaig	2.875,00	31/12/2012	31/12/2012		104
	29	2012	1 1010	Sexy Phones	S-Phones Tech Co.	10,70	31/12/2012	22/11/2012		100
	1	2013	1 1010	EmoClothes	Emo Clothes	92,40	16/01/2013	16/01/2013		106
	2	2013	1 1010	EmoClothes	Emo Clothes	0,00	16/01/2013	16/01/2013		107
	29	2012	1 1010	Sexy Phones	S-Phones Tech Co.	10,70	31/01/2013	22/11/2012		100

Rows:184

Go to expiry date:

16/01/2013

->

Total Selected:

0,00

Total Selected minus Rebates:

0,00

Print Type

Divided by customer

Divided by month

Divided by Agency/Customer

Preview

Close

