

AVID INTEGRATION

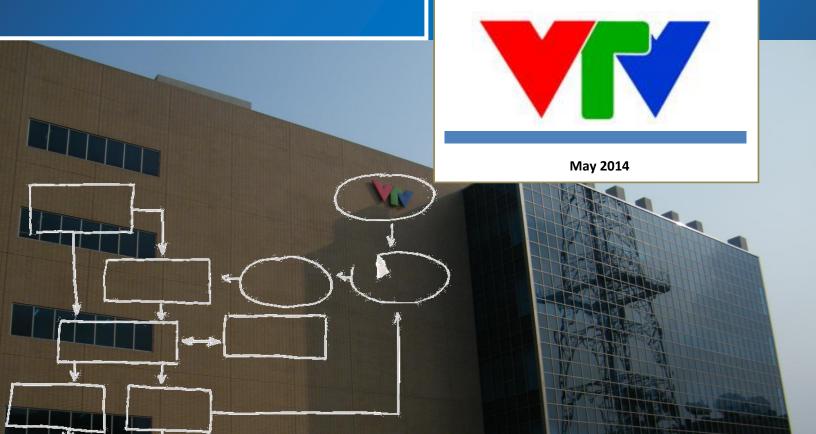
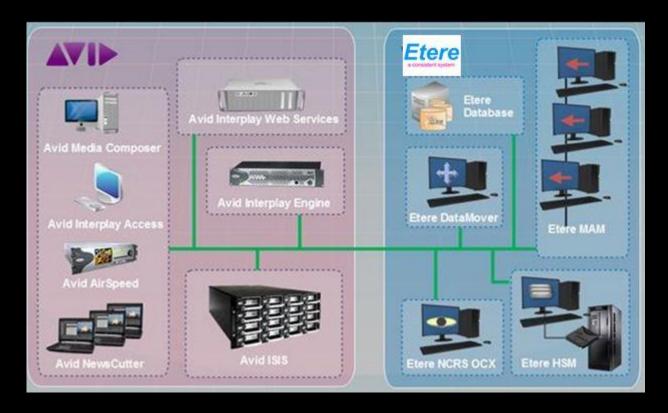


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▼ 1. INTRODUCTION

ETERE is able to integrate all aspects of the news production workflow, seamlessly moving media and information between archive and production all the way through to air servers:



This paper is intended to provide technical information on the integration between **ETERE** and **AVID** systems, describing how the solution proposed by **ETERE** is able to provide the integration operations requested by **VTV** including:

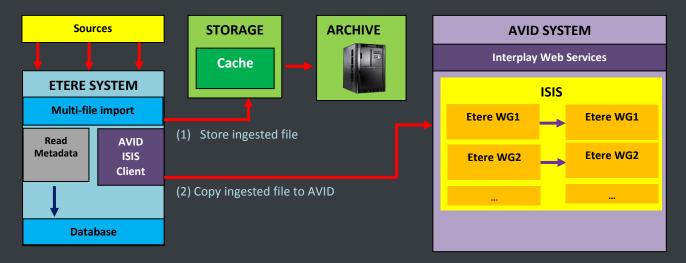
- ▶ Ingest: Acquire media into AVID ISIS and register them through AVID Interplay
- Archive and Restore: Archive media into Etere and restore it when required
- > Search and View: Preview archived assets and trigger workflow-based transfers

▼ 2. INGEST

Etere allows ingesting files and registering them through **AVID Interplay** as detailed below. Material managed in the Etere MAM system can be either acquired from scratch or synchronized from Avid.

▼ 2.1. Acquisition

The acquisition of new material is performed through the **Etere Multi-file Import**:

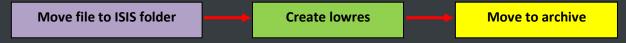


- Content can be imported from different sources (e.g. Sony SxS cards, Canon CF cards, EVS servers)
- Ingest is performed in Etere MAM, including metadata related to imported assets

Note: Each **ISIS** system has one **input** and one **output** workgroup, **workgroups** are represented within ETERE as import/export **metadevices** (WG1, WG2, WG3) with limited space; when limit is reached a workflow is triggered to automatically clean metadevices by deleting older files (already archived).

2.1.1 Post-ingest workflow

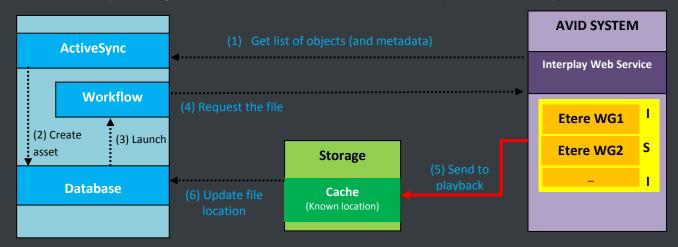
After ingest, a workflow will allow to transfer a copy of ingested content to the correct workgroup of ISIS using ISIS client:



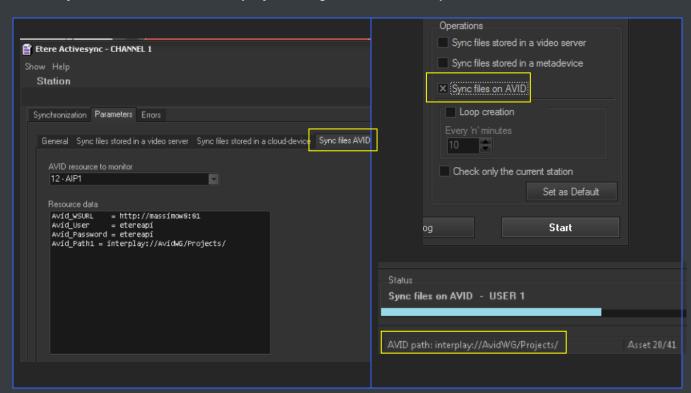
- The ingested hires file is moved to the correct ISIS folder (along with metadata)
- At the same time, a lowres file is also created
- The hires file is moved to the archive

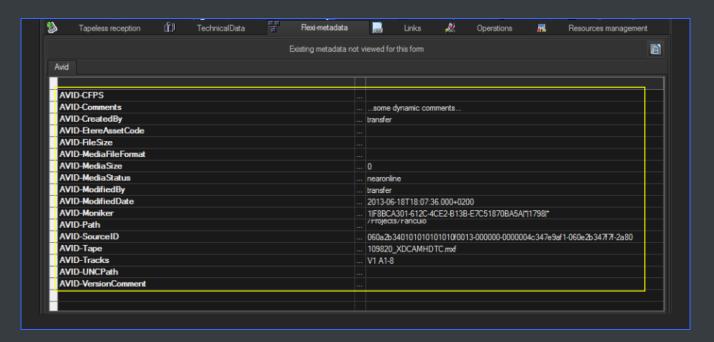
▼ 2.2. Synchronization

Material already existing in AVID is synchronized in MAM system by **Etere ActiveSync**:



ActiveSync access the **AVID Interplay WS** to get all available objects:





ActiveSync automatically synchronizes all master clips and sequences found in the AVID workgroups, recreating them in the Etere system as assets with the following characteristics:

File	The file is linked to the metadevice related to the AVID WG
Туре	AVSQ (for sequences), AVMC (for master clips)
Code	AVID.VideiID + idFilmati

Metadata

Some metadata is matched with "filmati" fields whereas others with Flexi-metadata. Retrieved metadata includes:

AVID data	Corresponding field in ETERE	
AVID.CFPS	SMPTE.name='AVID-CFPS'	
AVID.Comments	SMPTE.name='AVID-Comments'	
AVID.CreatedBy	SMPTE.name='AVID-CreatedBy'	
AVID.CreationDate	FILMATI.DATA_PROD	
AVID.Dur	FILMATI.DUR_FISICA	
AVID.Eom	FILMATI.POS_FIN	
AVID.EtereAssetCode	SMPTE.name='AVID-EtereAssetCode'	
AVID.FileSize	SMPTE.name='AVID-FileSize'	
AVID.MediaFileFormat	SMPTE.name='AVID-MediaFileFormat'	
AVID.MediaSize	SMPTE.name='AVID-MediaSize'	
AVID.MediaStatus	SMPTE.name='AVID-MediaStatus'	
AVID.MOBID	FILMATI.DESCRIZIO_1	
AVID.ModifiedBy	SMPTE.name='AVID-ModifiedBy'	
AVID.ModifiedDate	SMPTE.name='AVID-ModifiedDate'	
AVID.Moniker	SMPTE.name='AVID-Moniker'	
AVID.Path	SMPTE.name='AVID-Path'	
AVID.SourceID	SMPTE.name='AVID-SourceID'	
AVID.Som	FILMATI.INF_DIGIT	
AVID.Tape	SMPTE.name='AVID-Tape'	
AVID.Title	FILMATI.DESCRIZIO	
AVID.Tracks	SMPTE.name='AVID-Tracks'	
AVID.Type	FILMATI.NEWTYPE	
AVID.UNCPath	SMPTE.name='AVID-UNCPath'	
AVID.VersionComment	SMPTE.name='AVID-VersionComment'	
AVID.VideoId FILMATI.COD_PROGRA + FILMATI.ID		

Note1: In case AVID objects already exist in Etere, they are not updated.

Note 2: ETERE assets no longer existing in AVID are automatically and physically deleted from ETERE, only if they are unrecorded (i.e. without any linked media).

Note3: Contents of the same folder seems to have a MOB ID with a common fixed part and a variable part. AVID's documentation doesn't say anything about it, we need to group a series of MOB ID under a unique ID that identifies the asset to be archived

2.2.1 Post-sync workflow

A workflow is triggered for all synchronized assets to retrieve **sequences** (raw material) and **finished material** (master clip) along with related metadata

A **workflow action** is executed to perform the **SendToPlayback**, to move the file into a location known (configured in AVID and mapped in ETERE)

The workflow action is based on the **Etere.WF.Avid.exe** executable, which requires the following parameters:

wsurl	URL address of the AVID web service
usr	Login username for authentication in the AVID web service
pwd	User password for authentication in the AVID web service
wg	Name of the AVID workgroup to monitor.
clip	MOB ID of the asset to be exported
apd	Name of the Playback Device set in Avid for SendToPlayback
ерс	Name of the computer where AVID Transfer Manager is installed

Etere automatically copies **metadata** from the source project into the new asset (using the **"copy asset"** function).

▼ 3. ARCHIVE AND RESTORE

ETERE is able to integrate AVID ISIS systems, but using the Interplay Web Service:

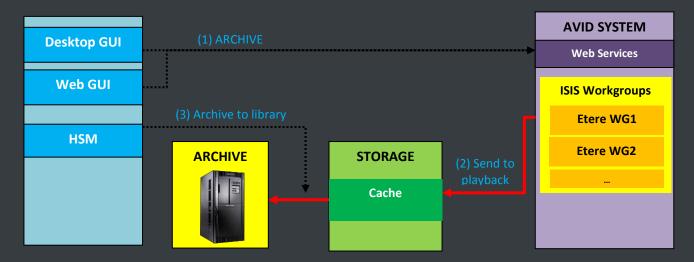
- ✓ Archive and restore raw materials (sequences) and finished video (master clips)
- ✓ Archive/restore material either ingested from Etere
- ✓ Archive/restore material along with their related AVID metadata

▼ 3.1. Archive

In Etere's **desktop** or **web GUI**, the user searches for **"sequences"** (AVSQ) or **"master clips"** (AVMC) stored in a certain metadevice (e.g. Avid WG1):

DESKTOP/WEB SEARCH on ETERE				
Asset ID	Description	Type	Storage	Archived
112344	Super bowl 2013	AVMC	Etere WG1	No
234838	Federer special reportage	AVMC	Etere WG1	No
321515	New York parade 2014 - day1	AVSQ	Etere WG1	No
321563	New York parade 2014 – day2	AVSQ	Etere WG1	No
338422	Kasparov interview	AVMC	Etere WG1	No
632318	Obama speech about security	AVMC	Etoro MiC4	No
789651	Brazil 2014 – more than soccer	AVSQ	• Launch "archive" workflow	
813898	Sochi 2014 – billion expectations	AVSQ		

The user launches a **workflow** to **archive** the selected file from its **workgroup** (e.g. WG1). **AVID** will receive a command to send the file to the Etere WG and **AVID WS** to provide all metadata:

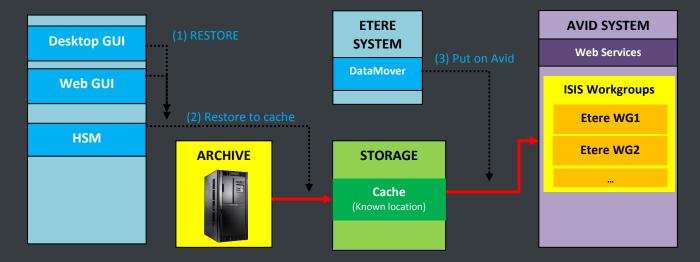


▼ 3.2. Restore

In Etere's **desktop** or **web GUI**, the user searches for **"sequences"** (AVSQ) or **"master clips"** (AVMC) stored in a certain metadevice (e.g. Avid WG1):

DESKTOP/WEB SEARCH on ETERE					
Asset ID	Description	Type	Storage	Archived	
112344	Super bowl 2013	AVMC	Etere WG1	Yes	
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321515	New York parade 2014 - day1	AVSQ	Etere WG1	Yes	
321563	New York parade 2014 – day2	AVSQ	Etere WG1	Yes	
338422	Kasparov interview	AVMC _	Etere WG1	Yes	
632318	Obama speech about security	AVMC	• Launch "restore" workflow		
789651	Brazil 2014 – more than soccer	AVSQ			
813898	Sochi 2014 – billion expectations	n expectations AVSQ			

The user launches a **workflow** to **restore** the selected file into its **workgroup** (e.g. WG1). **AVID** will receive a command to send the file to the Etere WG and **AVID WS** to provide all metadata:

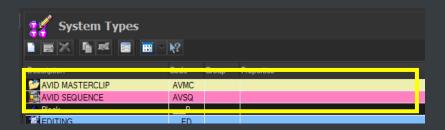


Note: Only one DataMover can be used for all file transfers, thus saving the number of licenses for ISIS clients.

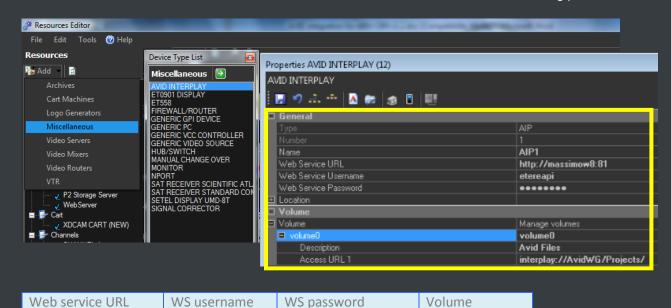
▼ 3.3. Settings

The parameters needed to be configured in ETERE are following listed:

 ASSET TYPES: AVID master clips (AVMC) and sequences (AVSQ) types are automatically created in Etere:



• METADEVICES: An AVID INTERPLAY miscellaneous resource is created with the following parameters:



▼ 4. SEARCH AND VIEW

Etere support **MOS protocol** to fully integrate **Avid's iNEWS** and **NewsCutter** systems with the MAM archive and provide the following features:

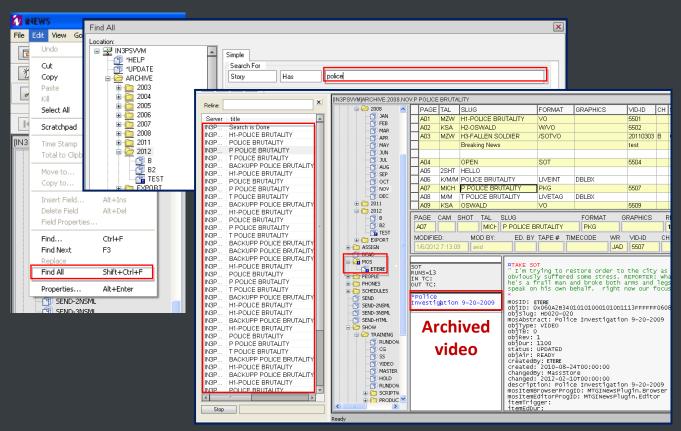
- Wide set of filters to search for archived assets
- Preview the proxy video of assets stored in the archive
- View and modify metadata of archived assets
- Mark assets by inserting segments in their EDL
- > Request retrieving media from the archive via workflow
- > Send assets as **MOS objects** to other 3rd-party systems with just one click

Etere NCRS OCX is the ActiveX browser that allows users to search and preview archived media and transfer files to any destination (NLE servers, playout servers, etc.) from the Newsroom interface:

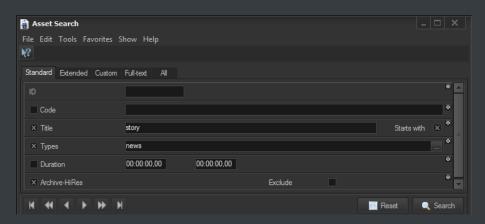


▼ 4.1. Search

Etere's MOS integration allows users to search for archived assets from within **Avid INews** and **NewsCutter**, listing all assets matching a given keyword:



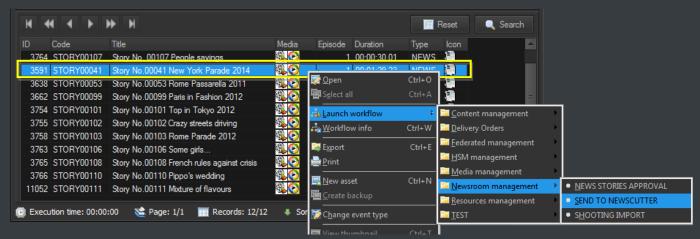
Double-clicking on the <u>archived video</u> of an asset opens <u>Etere NCRS OCX</u> (Search Asset), which provides a robust search engine to look for assets stored in the <u>Etere MAM archive</u>:



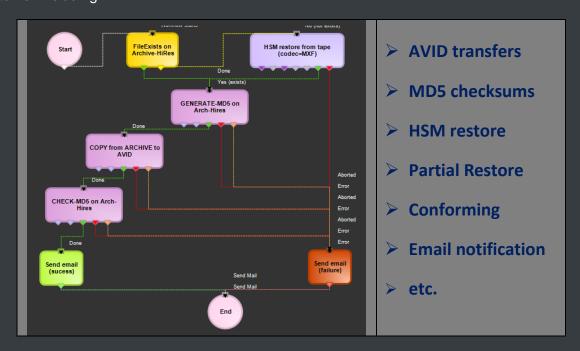
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▼ 4.2. Transfer

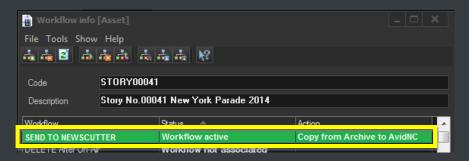
Sending media to **Avid** is possible thanks to the tight integration with **Etere Workflow**, users can right-click on assets and trigger any available workflow (e.g. **retrieve** media in **News Cutter**):



Launched workflows are fully customizable; they can be designed to perform any action requested by the customer including:



It's worth mentioning that the **status** of launched workflows can be monitored in real-time:



▼ 4.3. Edit and Preview

Making right-click on an asset and selecting the "open" option allows loading it in the Media Library:



The **Media Library** allows viewing and modifying asset's **metadata** as well as browsing the **proxy**:

