

AVID INTEGRATION

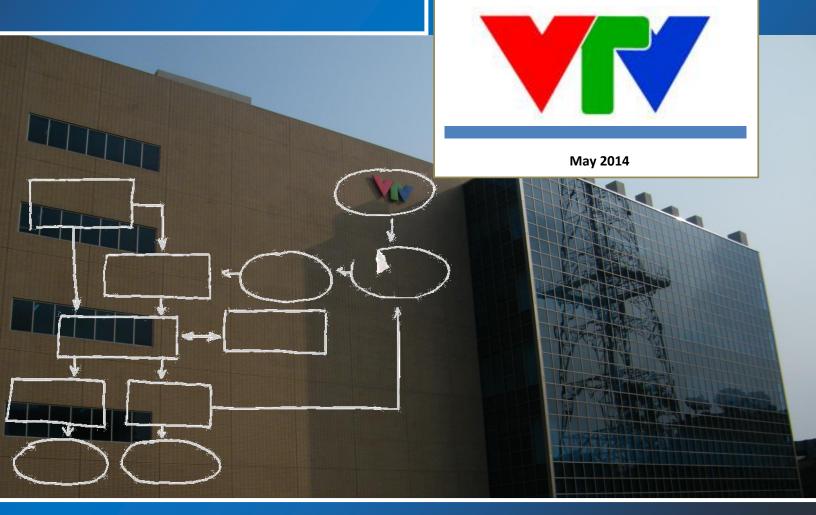
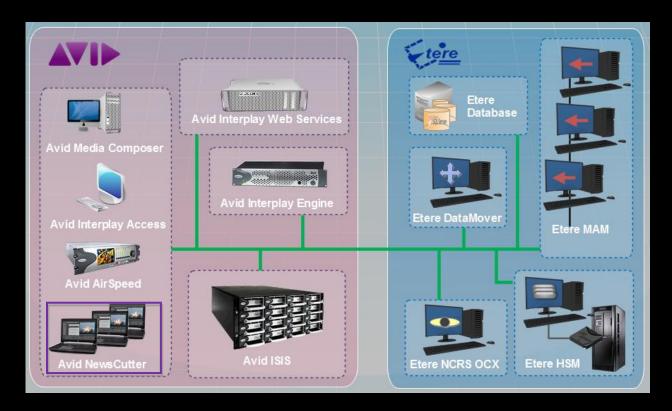


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▼ 1. INTRODUCTION

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:

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

▼ 2. NEWSCUTTER INTEGRATION

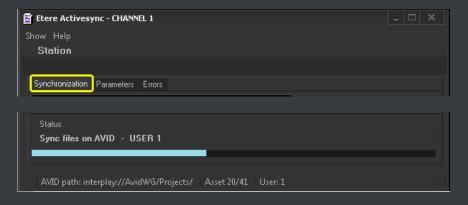
Etere is able to fully integrate **Avid NewsCutter**, enabling operators to easily archive and restore sequences without exiting the Avid environment.

▼ 2.1. Archive

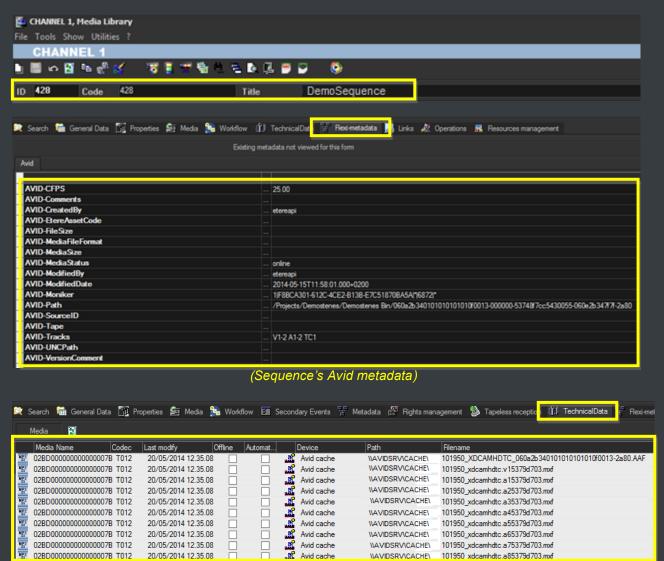
1. From **Avid NewsCutter**, the user use the "**Check In To Interplay** " function to add/update all sequence's media into the **Avid Interplay database**:



2. **Etere ActiveSync** will continuously monitor the **Avid Interplay storage**, detecting new **sequences** and **master clips**:

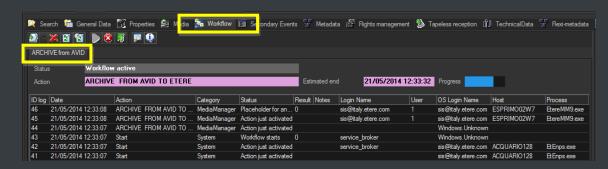


3. Etere ActiveSync will create one asset for the sequence and one for each master clip:

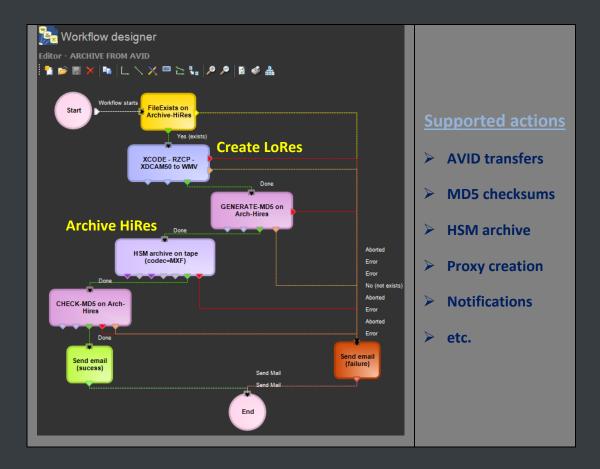


(Sequence's AAF and Consolidated files)

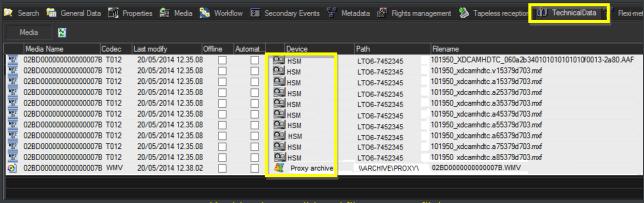
4. **Etere ActiveSync** will automatically launch a **workflow** to archive the sequence's media and generate a proxy file:



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5. The asset will hold the archived **media** and the generated **proxy:**:



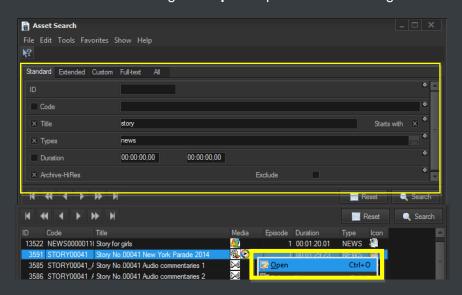
(Archived consolidated files + proxy file)

▼ 2.2. Access to archive

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



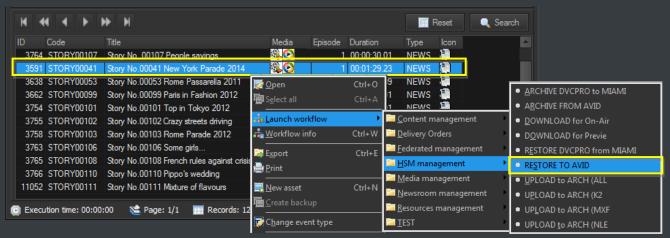
The **Search Asset** module provides a robust **search engine** to look for assets stored in the **archive**. Making right-click on an asset and selecting the "**open**" option allows loading it in the **Media Library**:



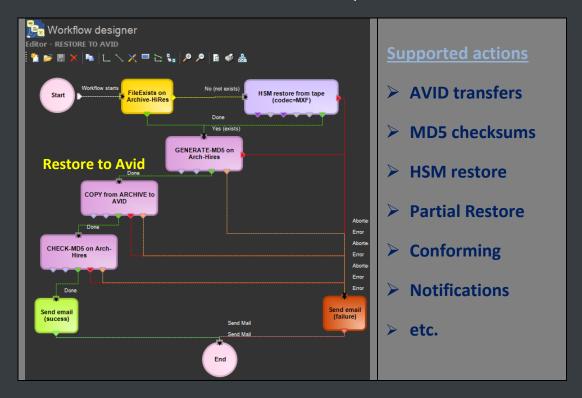
▼ 2.3. Restore

Restoring **sequence's media** into **Avid** is possible thanks to the tight integration with **Etere Workflow**, users will only need to follow the steps described below:

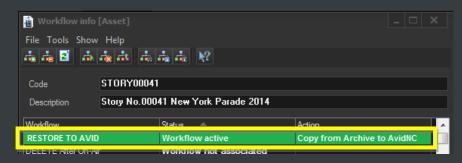
1. Search for an asset and right-click on it and trigger any available workflow (e.g. **retrieve** media in **News Cutter**):



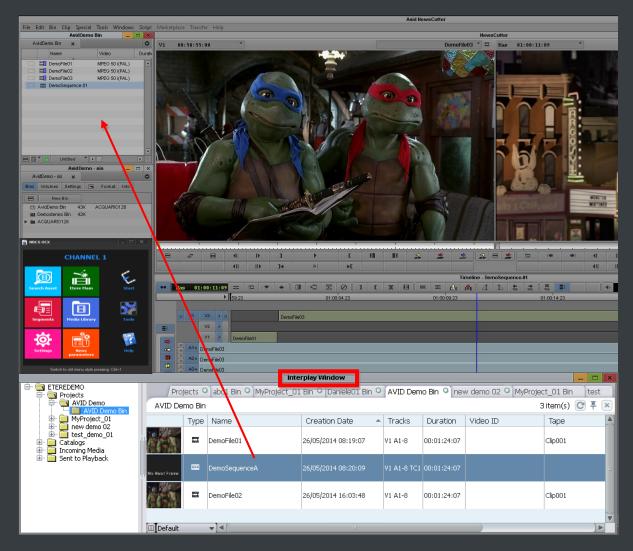
2. The **restore** workflow will be executed to make the sequence's media available on AVID:



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

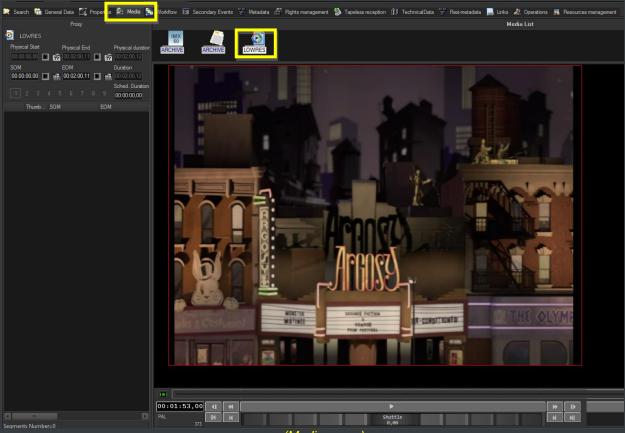


3. All sequence's media will be automatically restored into their original location within **Avid Interplay**, being available from use from NewsCutter:



▼ 2.4. Preview

Previewing archived media can be done from the **Media Library**, which also allows viewing and modifying asset's **metadata**:



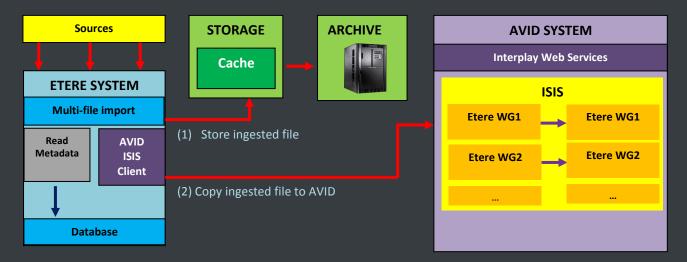
(Media proxy)

▼3. 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.

▼ 3.1. Acquisition

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

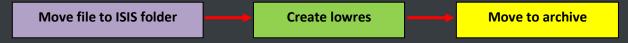


- Content can be imported from different sources (e.g. Sony SxS cards, Canon CF cards, EVS servers)
- Ingest is performed in Etere MAM, including metadata related to imported assets

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

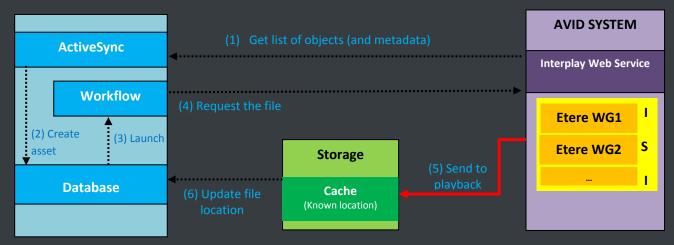
After ingest, a workflow will allow to transfer a copy of ingested content to the correct workgroup of ISIS using ISIS client:



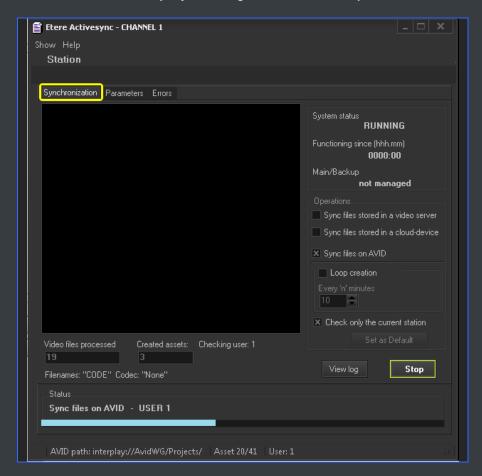
- The ingested hires file is moved to the correct ISIS folder (along with metadata)
- At the same time, a lowres file is also created
- The hires file is moved to the archive

▼ 3.2. 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 | | | |
|--|---|--|--|--|
| Type AVSQ (for sequences), AVMC (for master clips) | | | | |
| Code | AVID.VideiID + idFilmati | | | |
| Metadata | | corresponding field in ETERE SMPTE.name='AVID-CFPS' SMPTE.name='AVID-CreatedBy' FILMATI.DATA_PROD FILMATI.DUR_FISICA FILMATI.POS_FIN SMPTE.name='AVID-FileSize' SMPTE.name='AVID-MediaFileFormat' SMPTE.name='AVID-MediaSize' SMPTE.name='AVID-MediaSize' SMPTE.name='AVID-MediaStatus' FILMATI.DESCRIZIO_1 SMPTE.name='AVID-ModifiedBy' SMPTE.name='AVID-ModifiedDate' SMPTE.name='AVID-ModifiedDate' SMPTE.name='AVID-ModifiedDate' SMPTE.name='AVID-SourceID' FILMATI.INF_DIGIT SMPTE.name='AVID-Tape' FILMATI.DESCRIZIO SMPTE.name='AVID-Tracks' FILMATI.NEWTYPE SMPTE.name='AVID-VersionComment' | | |
| | AVID.VideoId | FILMATI.COD_PROGRA + FILMATI.ID_FILMATI | | |

ActiveSync automatically synchronizes all master clips and sequences found in the AVID workgroups according to the following cases:

| a. | The Sequence/MasterClip exist in AVID but not in ETERE | A new asset is created in ETERE |
|----|---|--|
| b. | The Sequence/MasterClip exist in AVID and ETERE | No asset is updated on ETERE |
| C. | The Sequence/MasterClip exists in ETERE but not in AVID | The asset is deleted from ETERE (if not linked to media) |

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).

▼ 4. ARCHIVE AND RESTORE

ETERE is able to integrate AVID ISIS systems interfacing the Interplay Web Service:

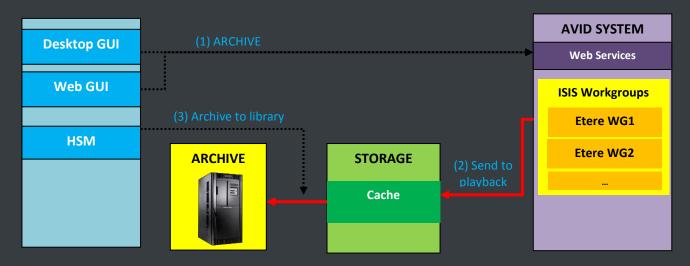
- ✓ Archive and restore raw materials (sequences) and finished video (master clips)
- ✓ Archive/restore material either ingested from Etere
- ✓ Archive/restore material along with their related AVID metadata

▼ 4.1. 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:

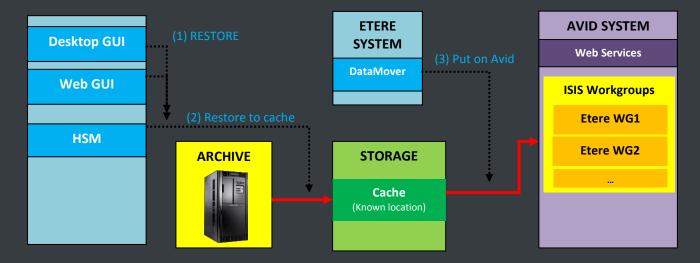


▼ 4.2. Restore

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 | | | | |
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| Asset ID | Description | Type | Storage | Archived |
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| 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 | 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:

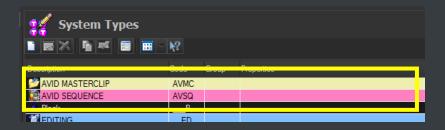


Note: One DataMover server can be used for all file transfers, thus saving the number of licenses for ISIS clients.

▼ 4.3. 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:

