

# Etere Logger

Logging



# History

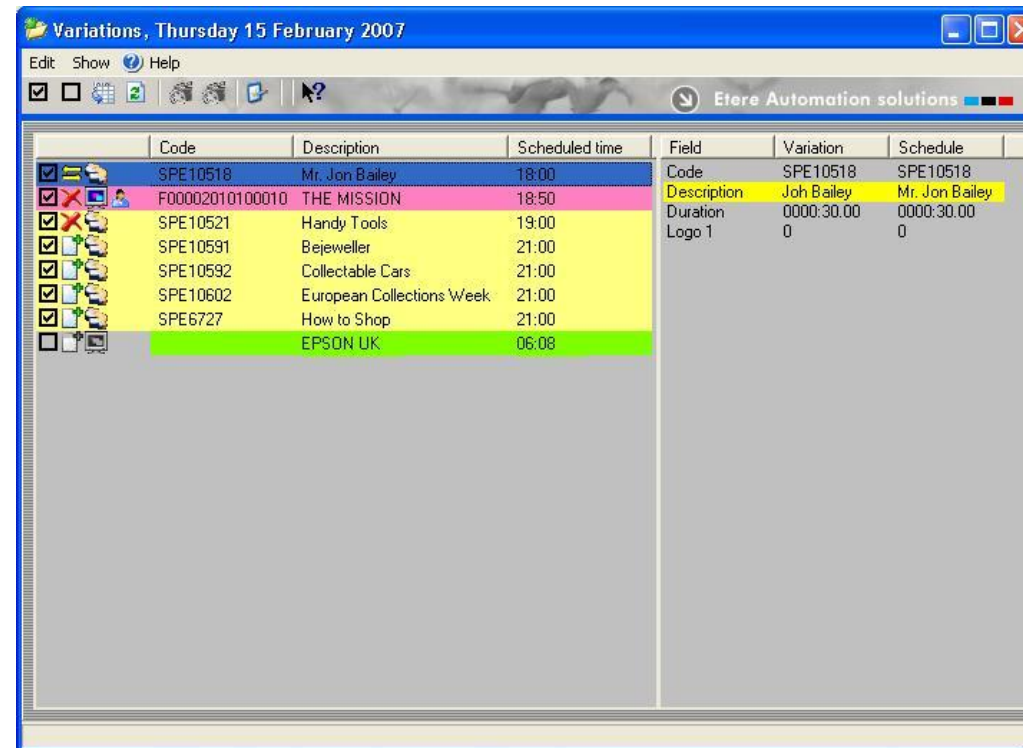
- Etere for big brother was born in 2001
- It uses all the resources available at that time and the best technologies available
- It has been redesigned for the 2010 technologies

# Etere Logger

Original Project



# Etere Logger



The screenshot shows the 'Variations, Thursday 15 February 2007' window. It features a menu bar (Edit, Show, Help), a toolbar with various icons, and a main area divided into two panes. The left pane contains a list of variations with checkboxes and icons. The right pane displays a comparison table for the selected variation (SPE10518).

	Code	Description	Scheduled time
<input checked="" type="checkbox"/>	SPE10518	Mr. Jon Bailey	18:00
<input checked="" type="checkbox"/>	F00002010100010	THE MISSION	18:50
<input checked="" type="checkbox"/>	SPE10521	Handy Tools	19:00
<input checked="" type="checkbox"/>	SPE10591	Bejeweller	21:00
<input checked="" type="checkbox"/>	SPE10592	Collectable Cars	21:00
<input checked="" type="checkbox"/>	SPE10602	European Collections Week	21:00
<input checked="" type="checkbox"/>	SPE6727	How to Shop	21:00
<input type="checkbox"/>		EPSON UK	06:08

Field	Variation	Schedule
Code	SPE10518	SPE10518
Description	Joh Bailey	Mr. Jon Bailey
Duration	0000:30.00	0000:30.00
Logo 1	0	0

# Etere Logger

- Etere Logger allows ingesting multiple channels continuously from either Live or VTR sources
- Automatic generation of lowRes copies during the capturing process
- Robust and understandable metadata to improve captured material retrieval
- On-the-fly metadata insertion for currently capturing video streams
- Flexible archiving process using VTR
- Integration with NLE via SDI and rs422 control

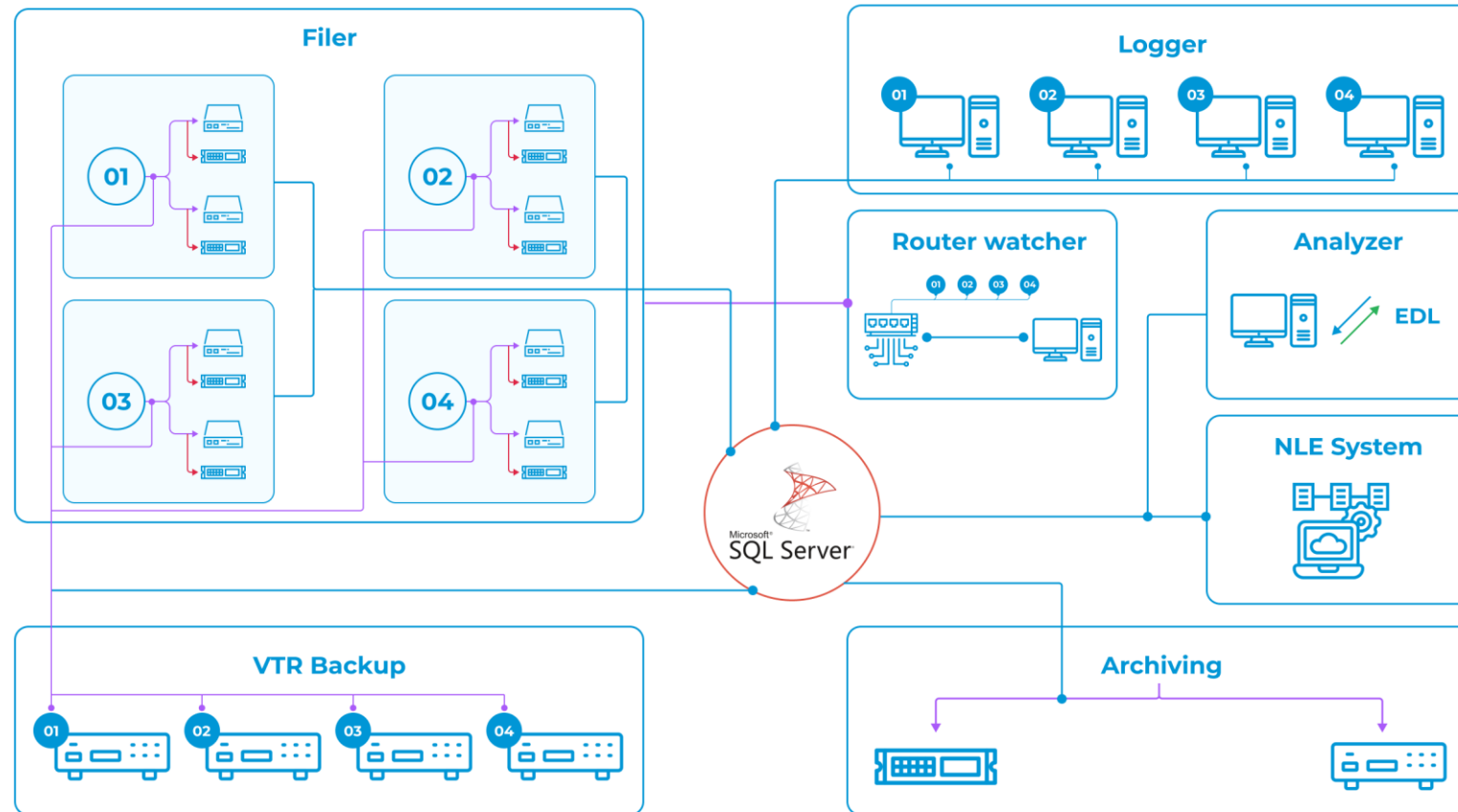
# Hardware Platform

- Seachange BMC server for HiRes and LowRes ingest
- Sony digital betacam VTR
- Avid Newscutter as editing

# Continuous Multi-source Logging

Continuous Logging of Multiple Video Sources

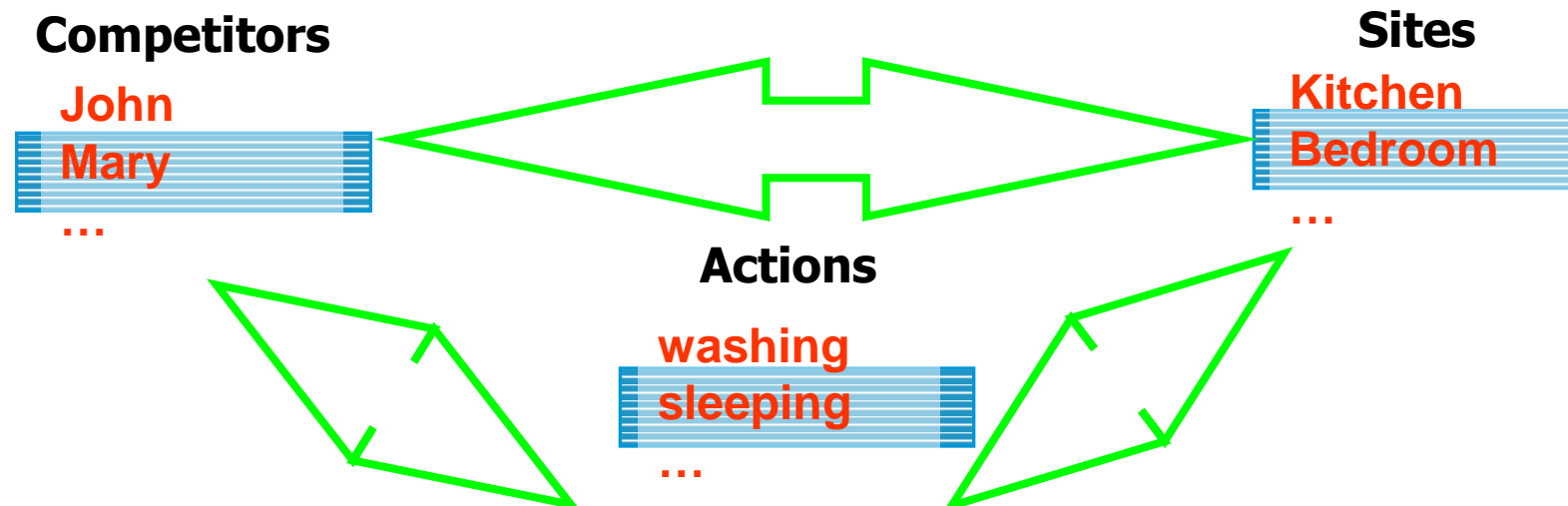
**Etere**  
a consistent system



— Data — Lowres Video — Hires Video

## Core Database Structure

- All data is stored into a database based in the SQL Server platform to enhance the reliability of the system
- Access for several different users, being also possible to set specific rights for each one of them
- Predefined key properties (i.e.: competitors, sites and actions) allows to drastically improve the logging process as well as later search and retrieval of logged data



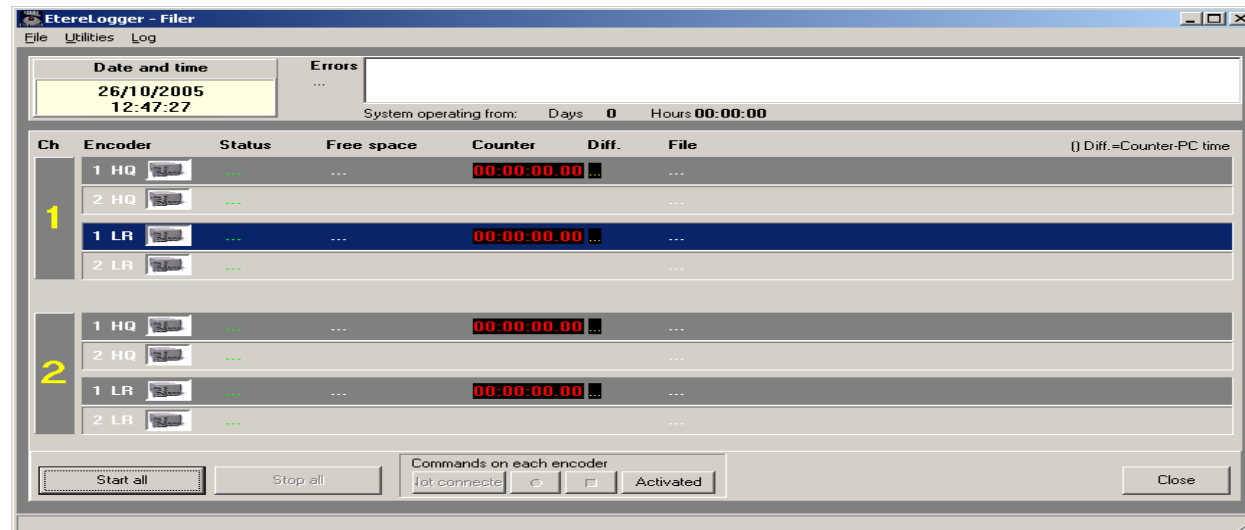


# How It Works?



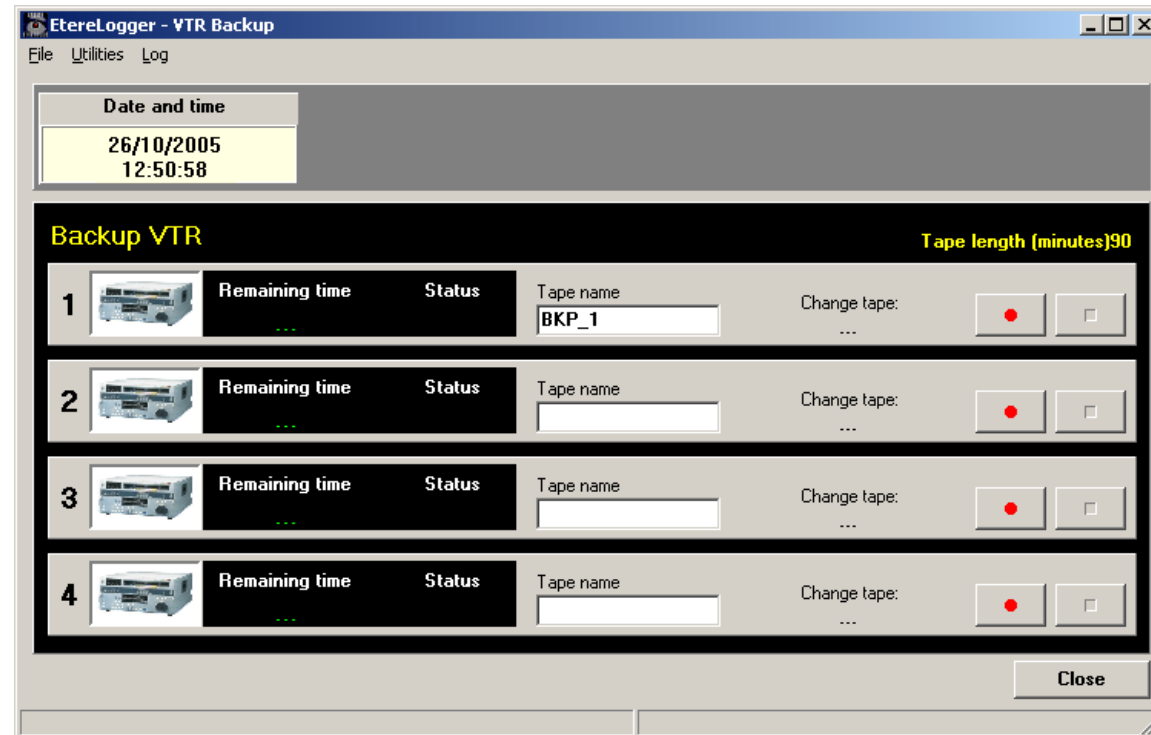
# Video Capturing

- Ingest up to four video streams using one video server for each one of them, 24h a day without interruptions,
- Each stream is captured using two different encoders the 2 files are overlapped
- Simultaneously to the main capture, a Mpeg1 lowRes copy is generated using another encoder

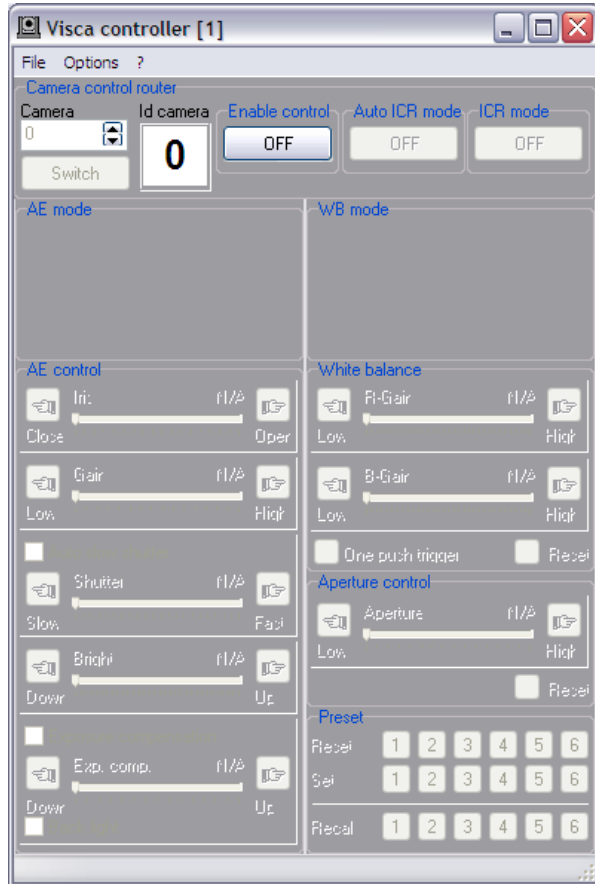


# Optional Backup Capture

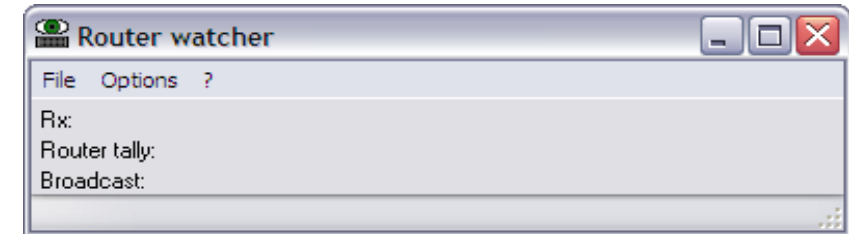
- It is possible to manually capture each video stream also in a VTR, as backup the database will track also tapes when generating stories



# Easy Multi-Camera Control



- Television cameras are connected to a video router that provides preview monitoring to the production department,
- Visca Controller is used for adjusting the colorimetry parameters of a camera each time it is switched through a control panel



- Router Watcher allows to control Sony television cameras along with Routers
- Each time an operator switches to a certain camera manually, Router Watcher select the relative camera among the ones present in the Visca Controller

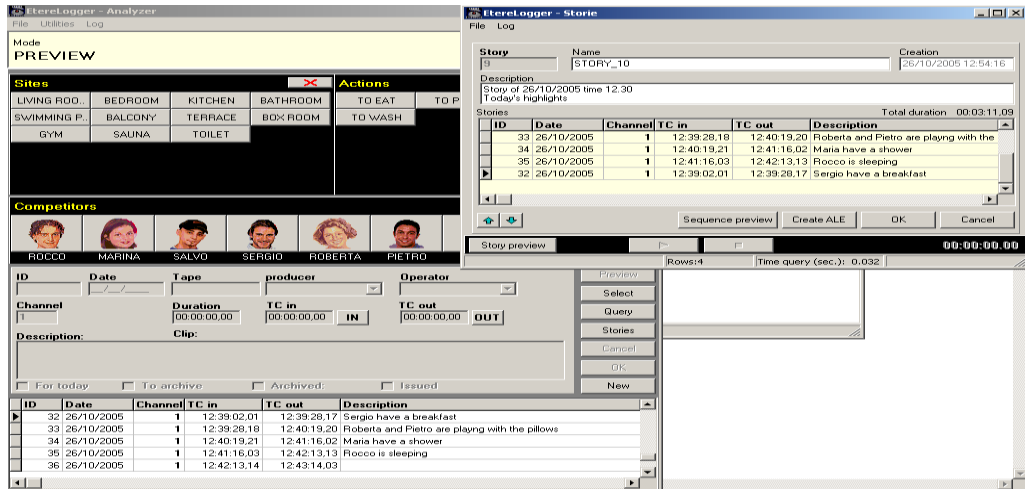
# Metadata Insertion

The screenshot shows the EtereLogger - Logger application interface. The 'Mode' is set to 'LOG' and 'Channel' is '1'. The 'Sites' section includes a grid of locations: LIVING ROOM, BEDROOM, KITCHEN, BATHROOM, SWIMMING P., BALCONY, TERRACE, BOX ROOM, GYM, SAUNA, and TOILET. The 'Actions' section includes: TO EAT, TO PLAY, TO SLEEP, TO COOK, and TO WASH. The 'Competitors' section shows a row of portraits with names: ROCCO, MARINA, SALVO, SERGIO, ROBERTA, PIETRO, MARIA, LORENZO, and FRANCESCA. The 'ID' is 36, 'Date' is 26/10/2005, 'Tape' is FELLINI, and 'Operator' is VALENTINO. The 'Channel' is 1, 'Duration' is 00:00:00.00, 'TC in' is 12:42:13.14, and 'TC out' is 00:00:00.00. The 'Description' field is empty. The 'Clip' is 0110261200. The 'For today' checkbox is checked. The 'To archive' checkbox is unchecked. The 'Archived' checkbox is unchecked. The 'Issued' checkbox is unchecked. The 'New' button is visible. The bottom status bar shows 'ID:36', 'Rows:5', and 'Time query (sec.): 0.015'.

ID	Date	Channel	TC in	TC out	Description
32	26/10/2005	1	12:39:02.01	12:39:28.17	Sergio have a breakfast
33	26/10/2005	1	12:39:28.18	12:40:19.20	Roberta and Pietro are playing with the pillows
34	26/10/2005	1	12:40:19.21	12:41:16.02	Maria have a shower
35	26/10/2005	1	12:41:16.03	12:42:13.13	Rocco is sleeping
36	26/10/2005	1	12:42:13.14	00:00:00.00	

- Operators can easily add key metadata to the sequences, even while they are being captured,
- A sequence is composed by the clip and metadata related to it,
- Inserted metadata is mainly made of sites, actions and competitors as well as the description, ingest date and timecodes

# Stories Creation



- The operator can easily create a story just by dragging and dropping sequences into a story window and entering a brief description
- It is possible to generate an ALE (AvidLogExchange) file that the Avid system will use to produce the story clip to broadcast.

# Existing Stories Retrieval

**EtereLogger - Select Story**

**Description with key-words**  
(To search a phrase, put it between commas " ")  
PLAY

Space= ☒ AND ☐ OR

**Channel**  
All

**Competitors**  
ROCCO  
MARINA  
SALVO  
SERGIO  
ROBERTA  
PIETRO  
MARIA  
LORENZO  
FRANCESCA

**Sites**  
LIVING ROOM  
BEDROOM  
KITCHEN  
BATHROOM  
SWIMMING POOL  
BALCONY  
TERRACE  
BOX ROOM  
GYM  
SAUNA  
TOILET

**Actions**  
TO EAT  
TO PLAY  
TO SLEEP  
TO COOK  
TO WASH

**producer**  
FELLINI  
ANTONIONI

☒ All together and individually  
☐ All together and joined

**Date range**  
**From date** 26/10/2005 **To date** 26/10/2005 **TC in** **TC out**

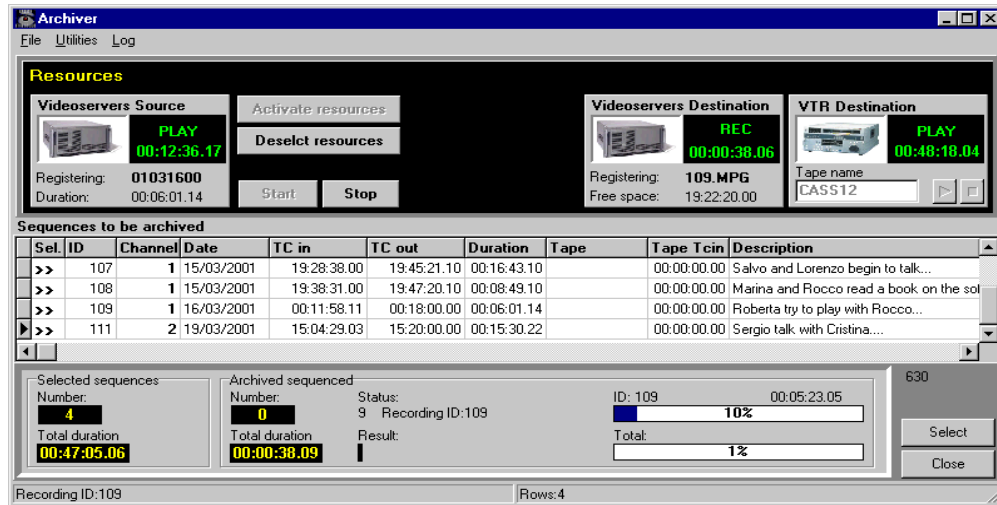
**For today** Ignore **To archive** Ignore **Archived:** Ignore **Issued** Ignore

Reset Search

Saved query Cancel

- Operators can easily search for stories by creating wizard custom queries detailing the competitors, sites, actions, date range, timecode, storage properties, etc.
- Queries can be saved and re-used later in further searches

# Media Archiving



- Once logged and stored, sequence's clips can be simultaneously archived in a video server and a VTR,
- Only clips marked as 'to archive' will be automatically stored, 'not to archive' clips are deleted according to policies.



# Event Logger



# Project Goals

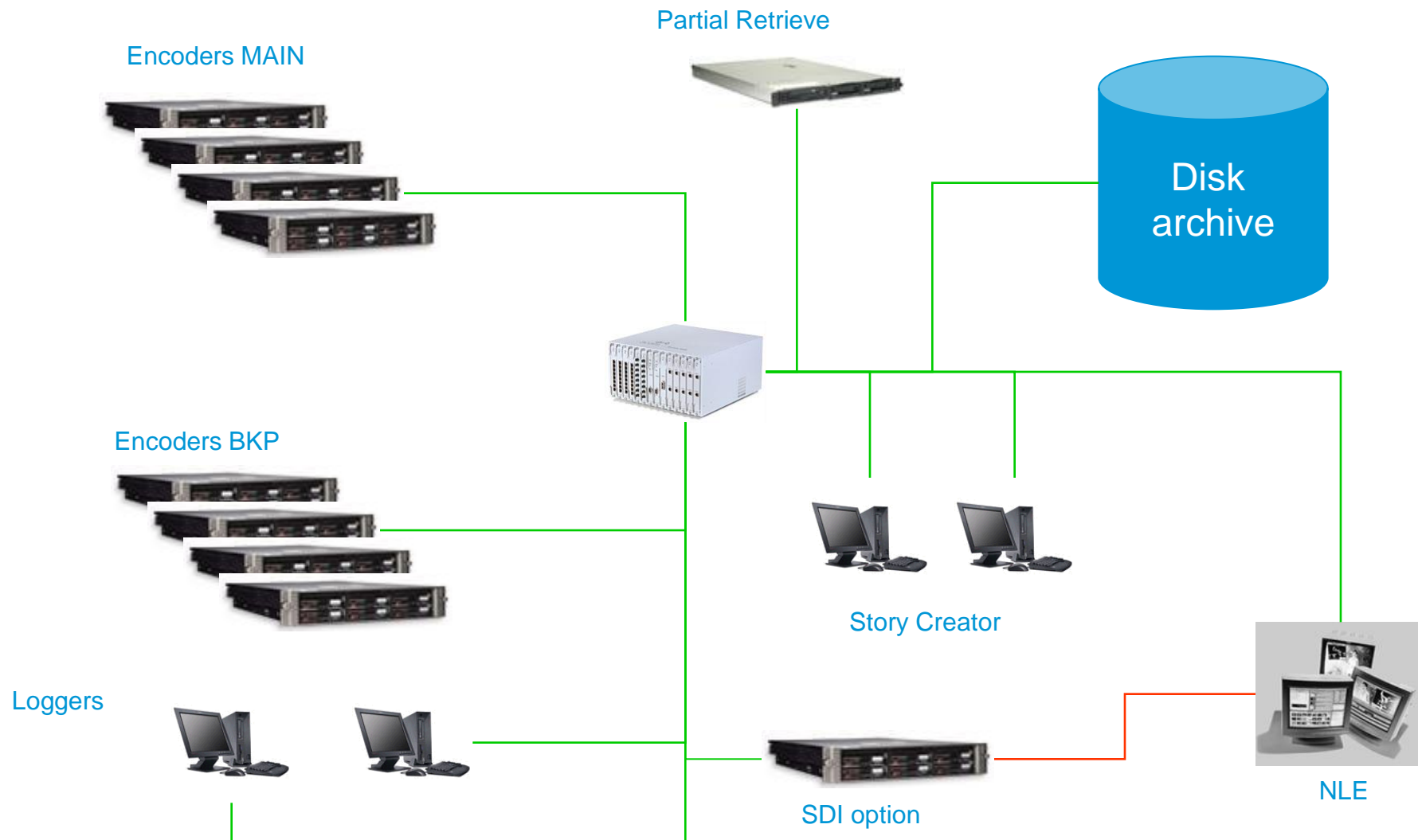
After 8 years Etere re-design the Logger with new technologies

The old project became outdated for the following reasons:

- Use a Seachange BMC800, out of production
- Use 2 Hires encoders for continuous recording
- Use one Hires recording for low res
- No file exchange with NLE, but SDI connection

# Etere Logging

- The new logger use the same interface but it's based on different hardware
- Use only one ETX encoder to produce continuous recording of both Hires and Lowres
- Use file exchange between NLE and the ingest
- Use partial retrieve to deliver files to NLE
- The ETX will store all the video in one IT based storage
- Archiving is done on Disk or LTO tapes
- SDI interface is still also available



# Increased Redundancy

- Ingested video is stored on local HD and moved to central storage. If central storage is temporary unavailable video still exist and encoder still works
- Duplicated encoders can be provided
- VTR backup can be provided
- Also Videotape archive can still exist
- Both File based and SDI based transfer are available
- Multiple ingest essence and wrapper choice
- Integrated with Etere workflow

# Thank you

[www.eterere.com](http://www.eterere.com)

