

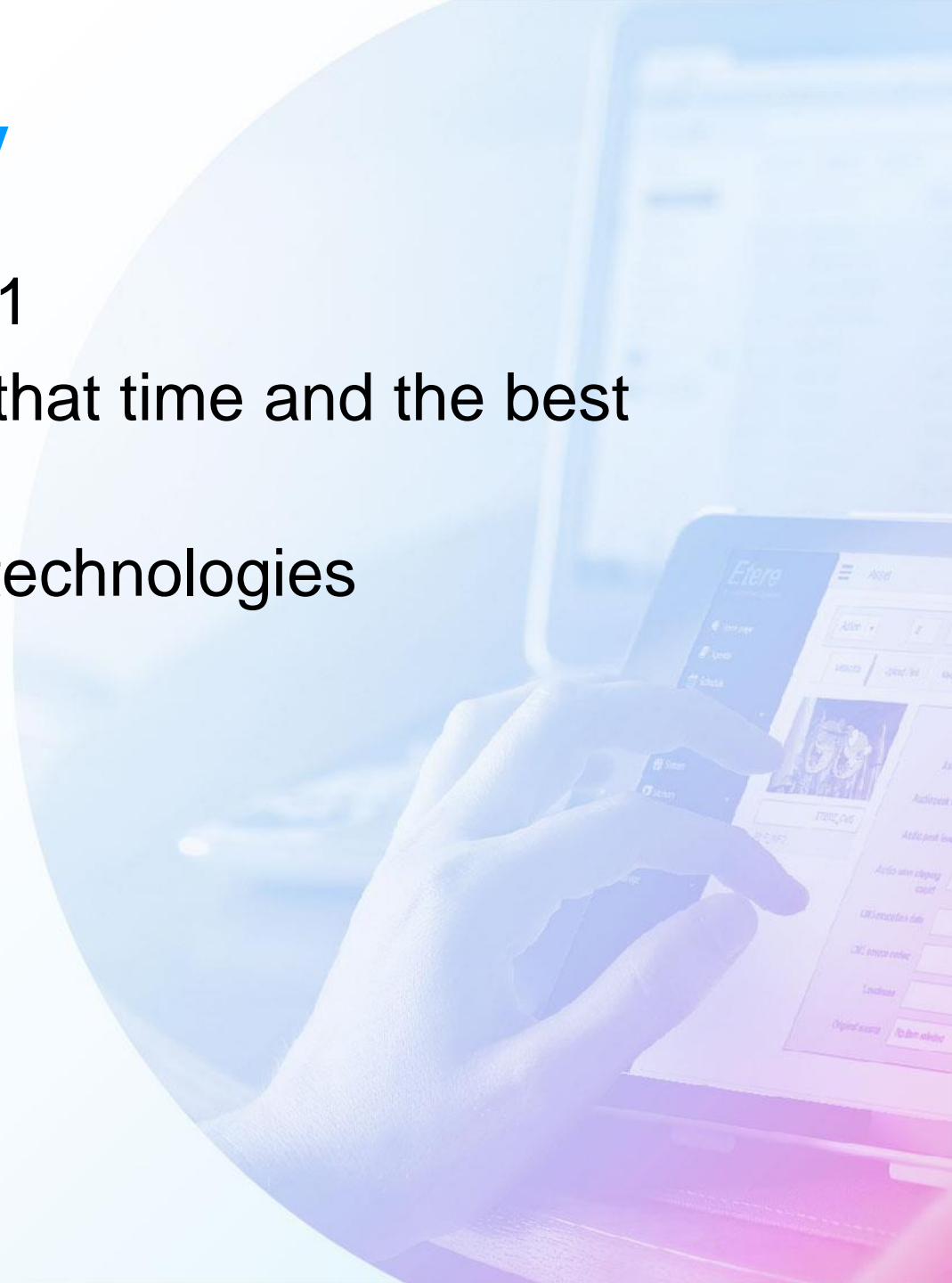
Etere Logger

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



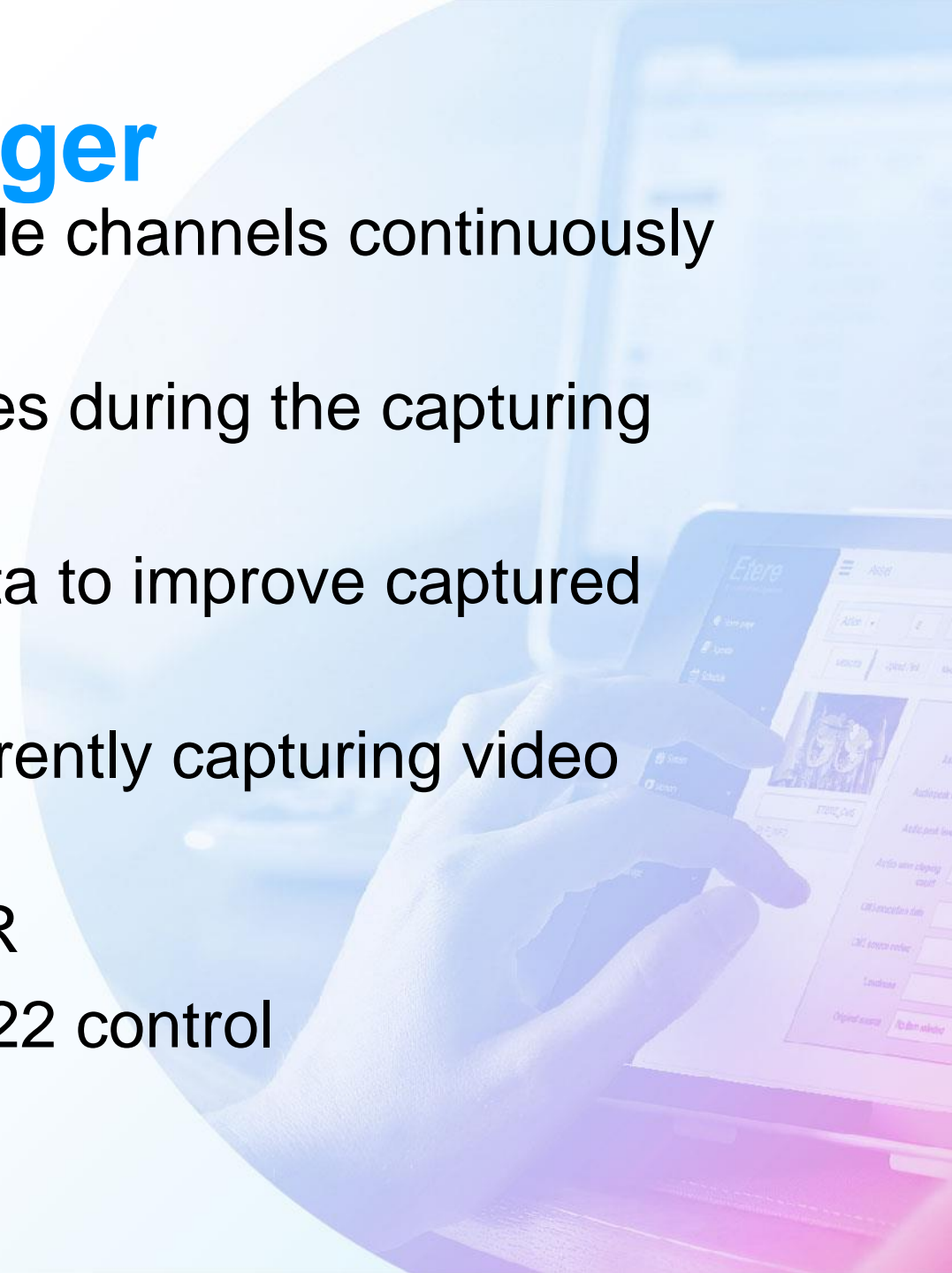
Etere Logger

Original Project



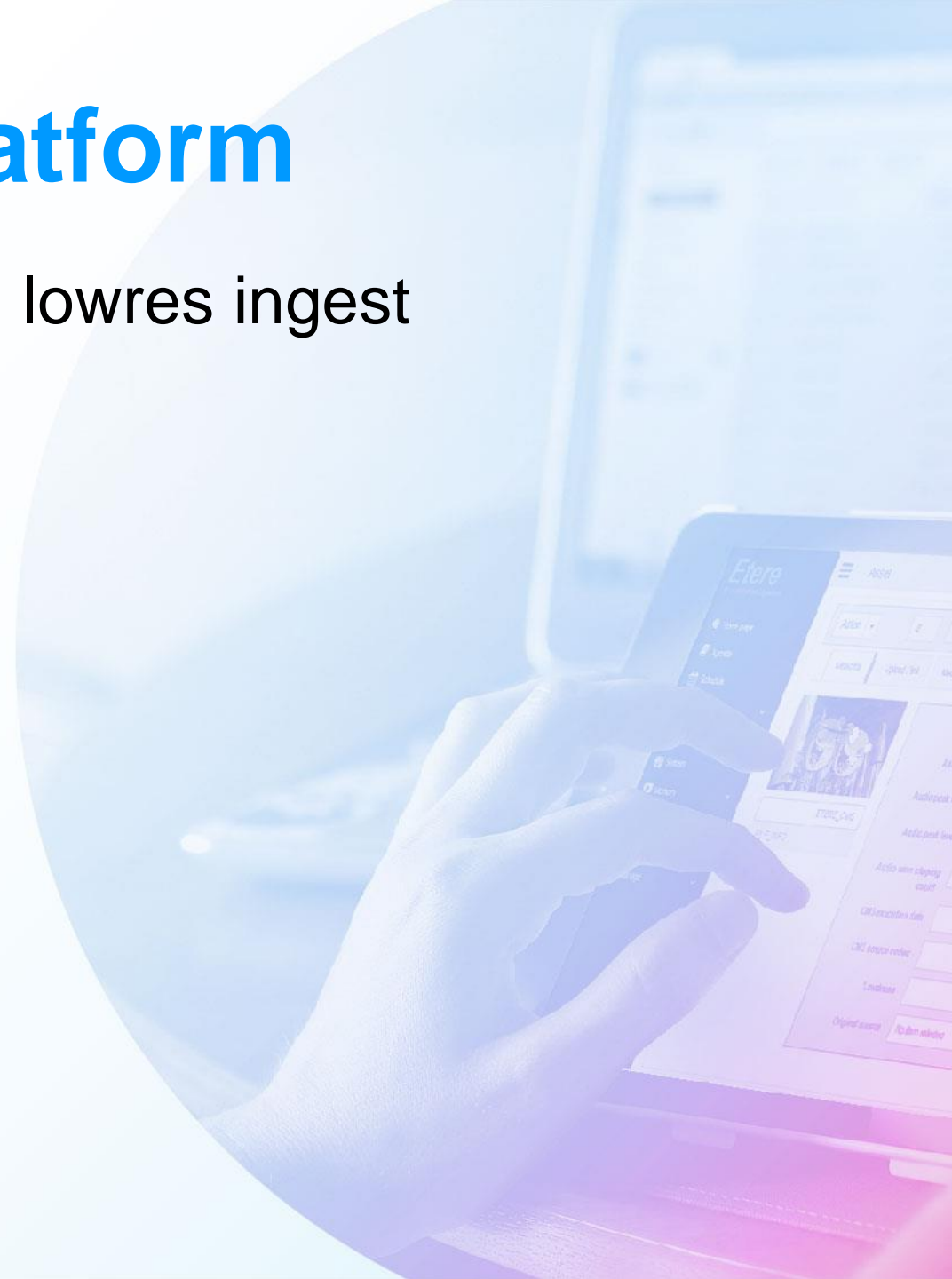
Etere Logger

- 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

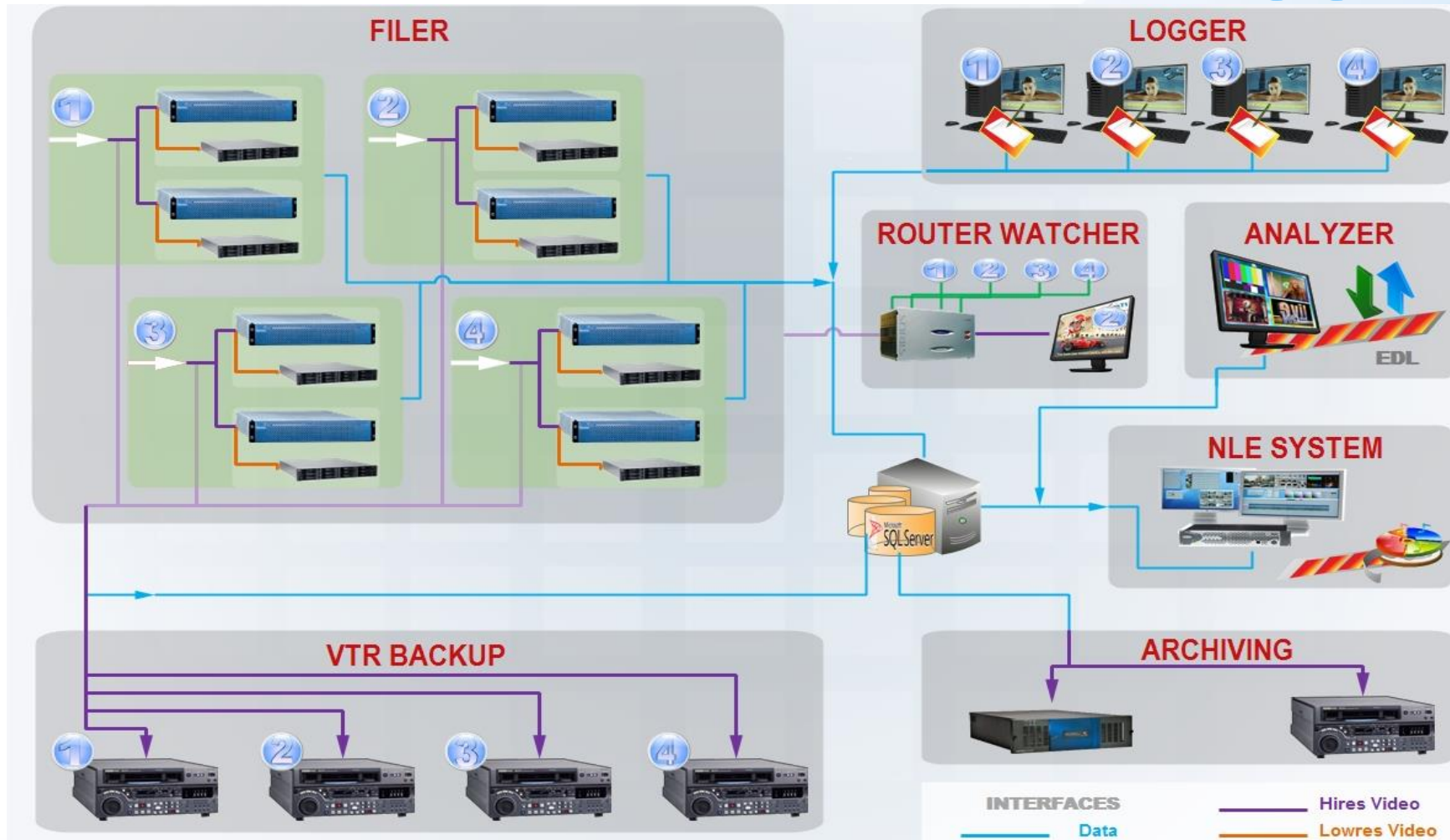


Hardware Platform

- Seachange BMC server for hires and lowres ingest
- Sony digital betacam VTR
- Avid Newscutter as editing



Continuous Multi-source Logging

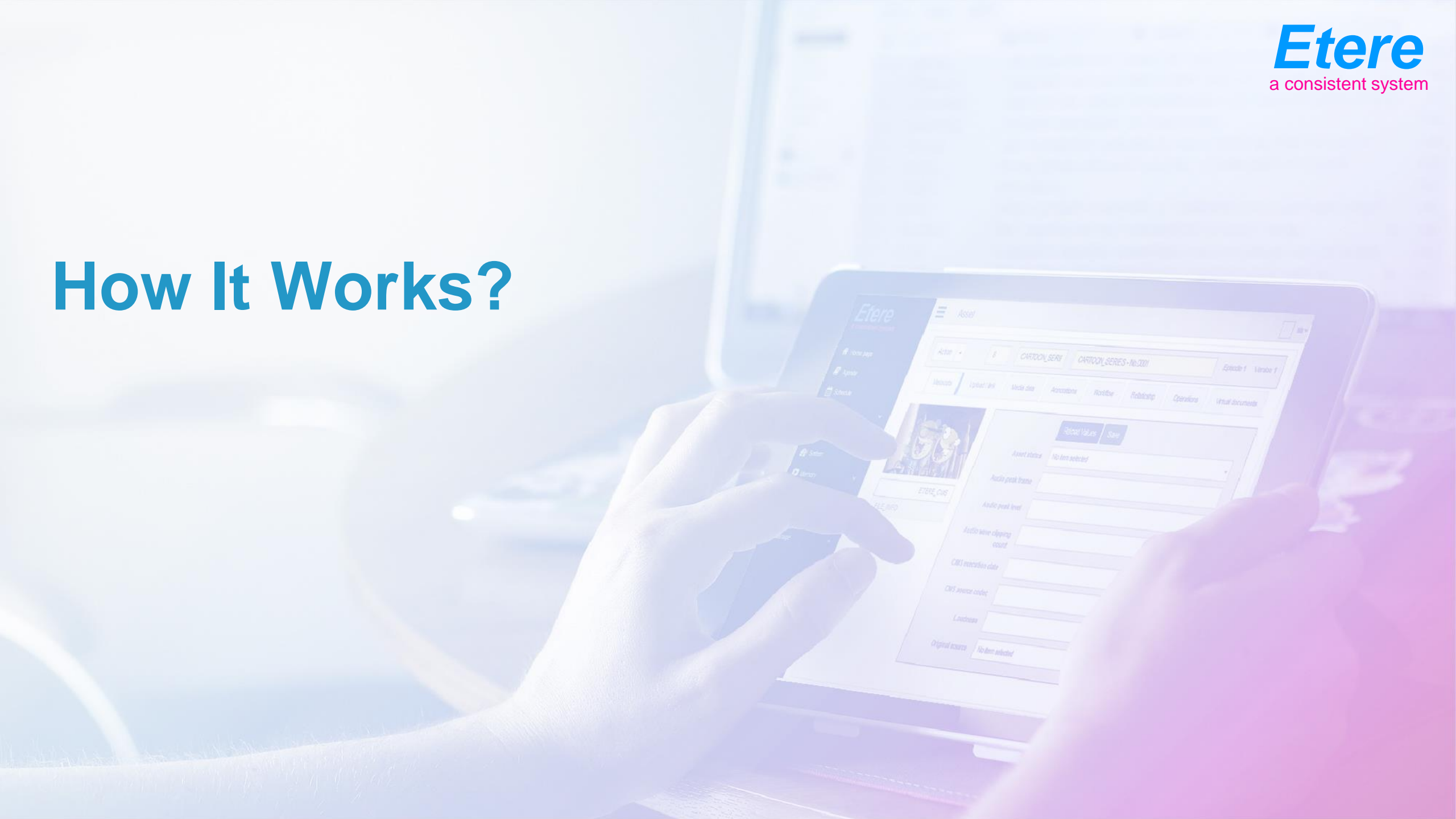


Core Database Structure

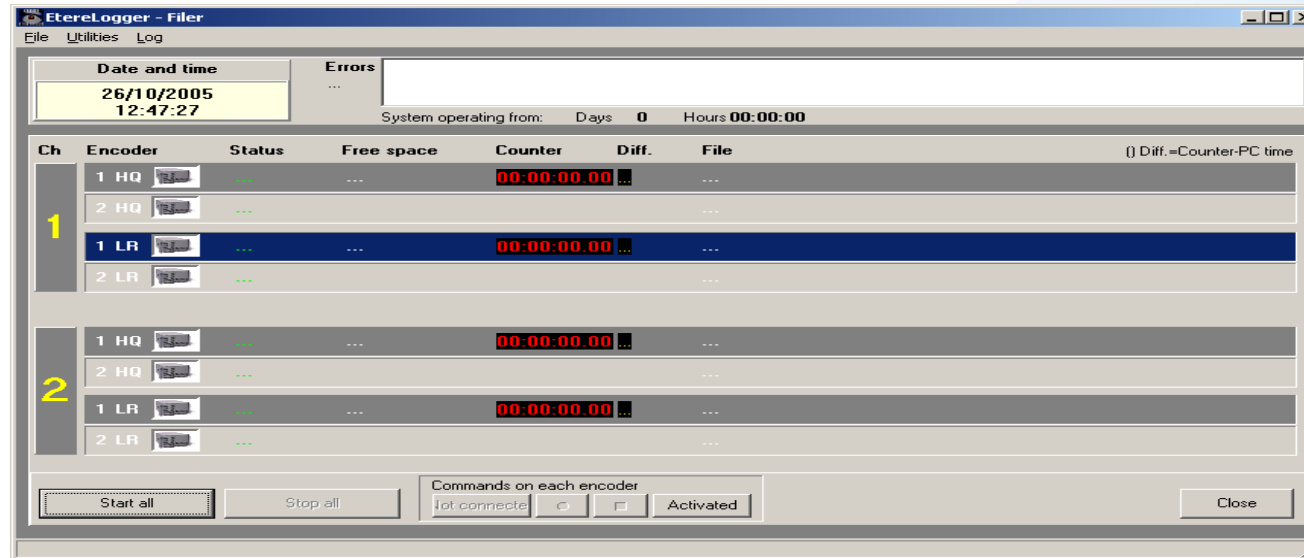
- All data is stored into a database based in the SQL Server platform to enhance the reliability of the system
- Access for several different users, being also possible to set specific rights for each one of them
- Predefined key properties (i.e.: competitors, sites and actions) allows to drastically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



How It Works?

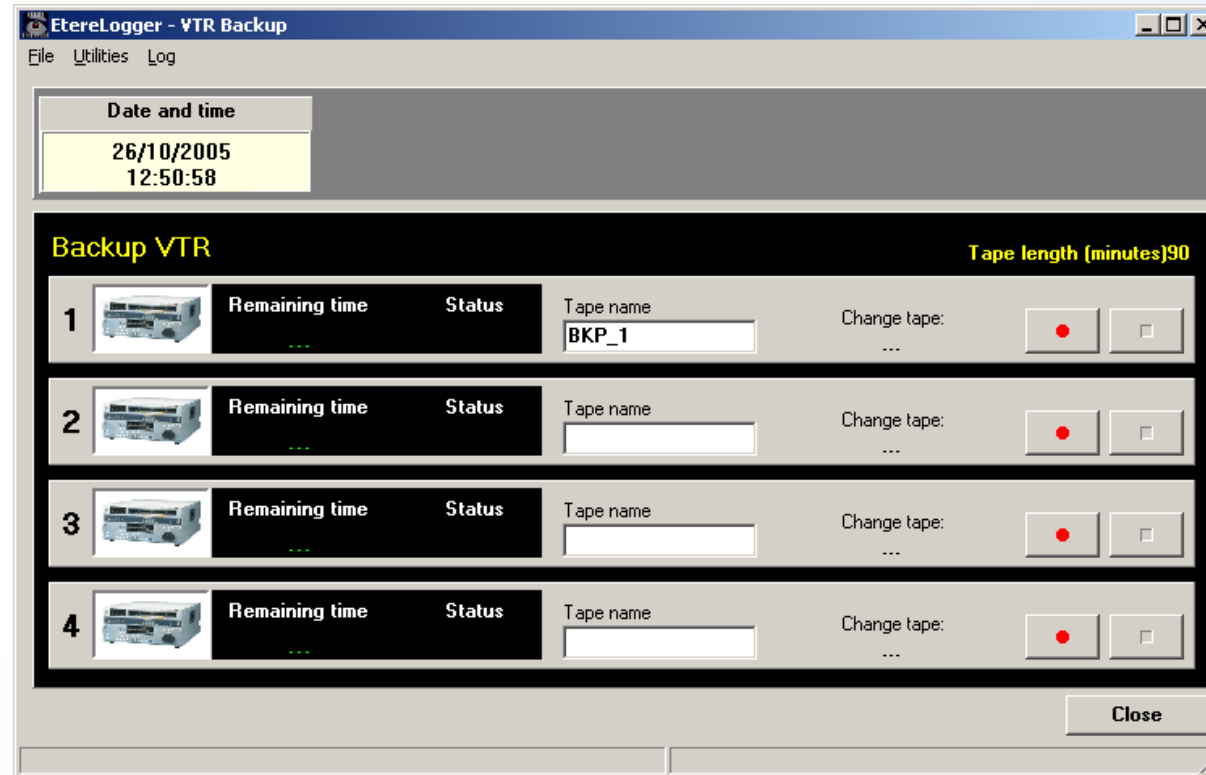


Video Capturing



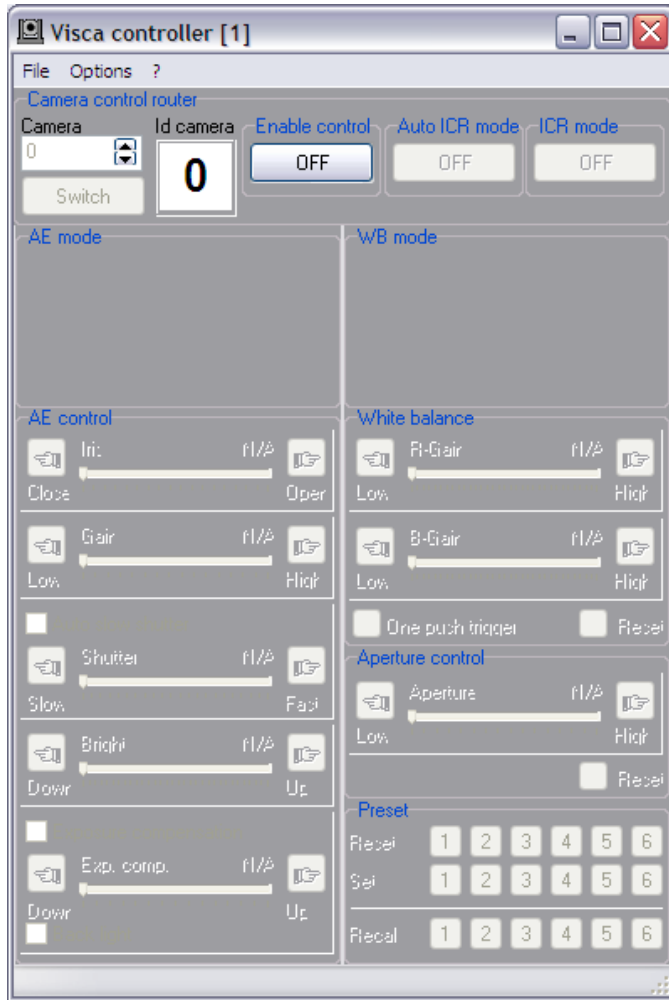
- Ingest up to four video streams using one video server for each one of them, 24h a day without interruptions,
- Each stream is captured using two different encoders the 2 files are overlapped
- Simultaneously to the main capture, a Mpeg1 lowRes copy is generated using another encoder.

Optional Backup Capture

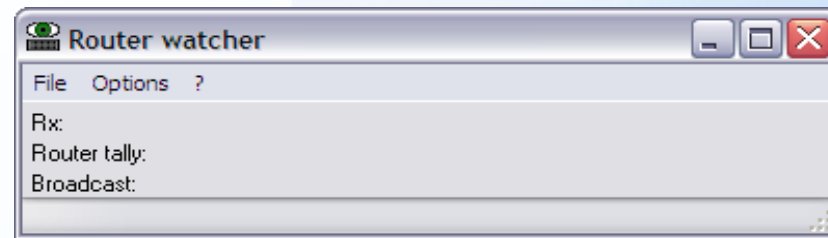


- It is possible to manually capture each video stream also in a VTR, as backup the database will track also tapes when generating stories.

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 window. The interface includes a menu bar (File, Utilities, Log), a Mode dropdown set to LOG, and a Channel indicator showing 1. The main area is divided into several sections:

- Sites:** A grid of room names including LIVING ROO., BEDROOM, KITCHEN, BATHROOM, SWIMMING P., BALCONY, TERRACE, BOX ROOM, GYM, SAUNA, and TOILET. The TOILET button is circled in red.
- Actions:** A grid of activity names including TO EAT, TO PLAY, TO SLEEP, TO COOK, and TO WASH. The TO WASH button is circled in red.
- Competitors:** A row of ten portrait icons with names: ROCCO, MARINA, SALVO, SERGIO, ROBERTA, PIETRO, MARIA, LORENZO, and FRANCESCA. The MARINA icon is circled in red.
- Form Fields:** Fields for ID (36), Date (26/10/2005), Tape, producer (FELLINI), Operator (VALENTINO), Channel (1), Duration (00:00:00.00), TC in (12:42:13.14), and TC out (00:00:00.00). There are also buttons for IN and OUT.
- Description:** A text area for entering a description.
- Table:** A table with columns ID, Date, Channel, TC in, TC out, and Description. It contains five rows of data for clips 32 through 36.

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 screenshot displays the EtereLogger software interface, divided into several panels. The top-left panel shows 'Mode PREVIEW' and a 'Sites' table with categories like LIVING ROOM, BEDROOM, KITCHEN, BATHROOM, SWIMMING P., BALCONY, TERRACE, BOX ROOM, GYM, SAUNA, TOILET, and TO EAT. Below this is a 'Competitors' section with portraits of ROCCO, MARINA, SALVO, SERGIO, ROBERTA, and PIETRO. The top-right panel, titled 'EtereLogger - Storie', shows a 'Story' window for 'STORY_10' with a description: 'Story of 26/10/2005 time 12.30 Today's highlights'. It contains a table of selected sequences:

ID	Date	Channel	TC in	TC out	Description
33	26/10/2005	1	12:39:28,18	12:40:19,20	Roberta and Pietro are playing with the
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
32	26/10/2005	1	12:39:02,01	12:39:28,17	Sergio have a breakfast

The bottom-left panel shows a detailed view of a sequence with fields for ID, Date, Tape, producer, Operator, Channel, Duration, TC in, IN, TC out, OUT, Description, and Clip. A red arrow points from the 'Select' button in the 'Preview' menu to the 'Description' field in the 'Story' window. The bottom-right panel shows a 'Preview' window with a 'Select' button highlighted in red.

- 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	Sites	Actions	producer
ROCCO	LIVING ROOM	TO EAT	FELLINI
MARINA	BEDROOM	TO PLAY	ANTONIONI
SALVO	KITCHEN	TO SLEEP	
SERGIO	BATHROOM	TO COOK	
ROBERTA	SWIMMING POOL	TO WASH	
PIETRO	BALCONY		
MARIA	TERRACE		
LORENZO	BOX ROOM		
FRANCESCA	GYM		
	SAUNA		
	TOILET		

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

The screenshot shows the 'Archiver' software interface. At the top, there are three resource panels: 'Videoservers Source' (PLAY 00:12:36.17), 'Videoservers Destination' (REC 00:00:38.06), and 'VTR Destination' (PLAY 00:48:18.04). Below these is a table of 'Sequences to be archived' with columns for Sel., ID, Channel, Date, TC in, TC out, Duration, Tape, Tape Tcin, and Description. The table lists four sequences (IDs 107, 108, 109, 111). At the bottom, there are progress bars for 'Selected sequences' (4, 00:47:05.06) and 'Archived sequenced' (0, 00:00:38.09). A progress bar for 'ID: 109' shows 10% completion, and a 'Total' bar shows 1% completion. The interface also includes a 'Recording ID:109' field and a 'Rows:4' indicator.

Sel.	ID	Channel	Date	TC in	TC out	Duration	Tape	Tape Tcin	Description
>>	107	1	15/03/2001	19:28:38.00	19:45:21.10	00:16:43.10		00:00:00.00	Salvo and Lorenzo begin to talk...
>>	108	1	15/03/2001	19:38:31.00	19:47:20.10	00:08:49.10		00:00:00.00	Marina and Rocco read a book on the sol
>>	109	1	16/03/2001	00:11:58.11	00:18:00.00	00:06:01.14		00:00:00.00	Roberta try to play with Rocco...
>>	111	2	19/03/2001	15:04:29.03	15:20:00.00	00:15:30.22		00:00:00.00	Sergio talk with Cristina...

- 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

Version 2.0



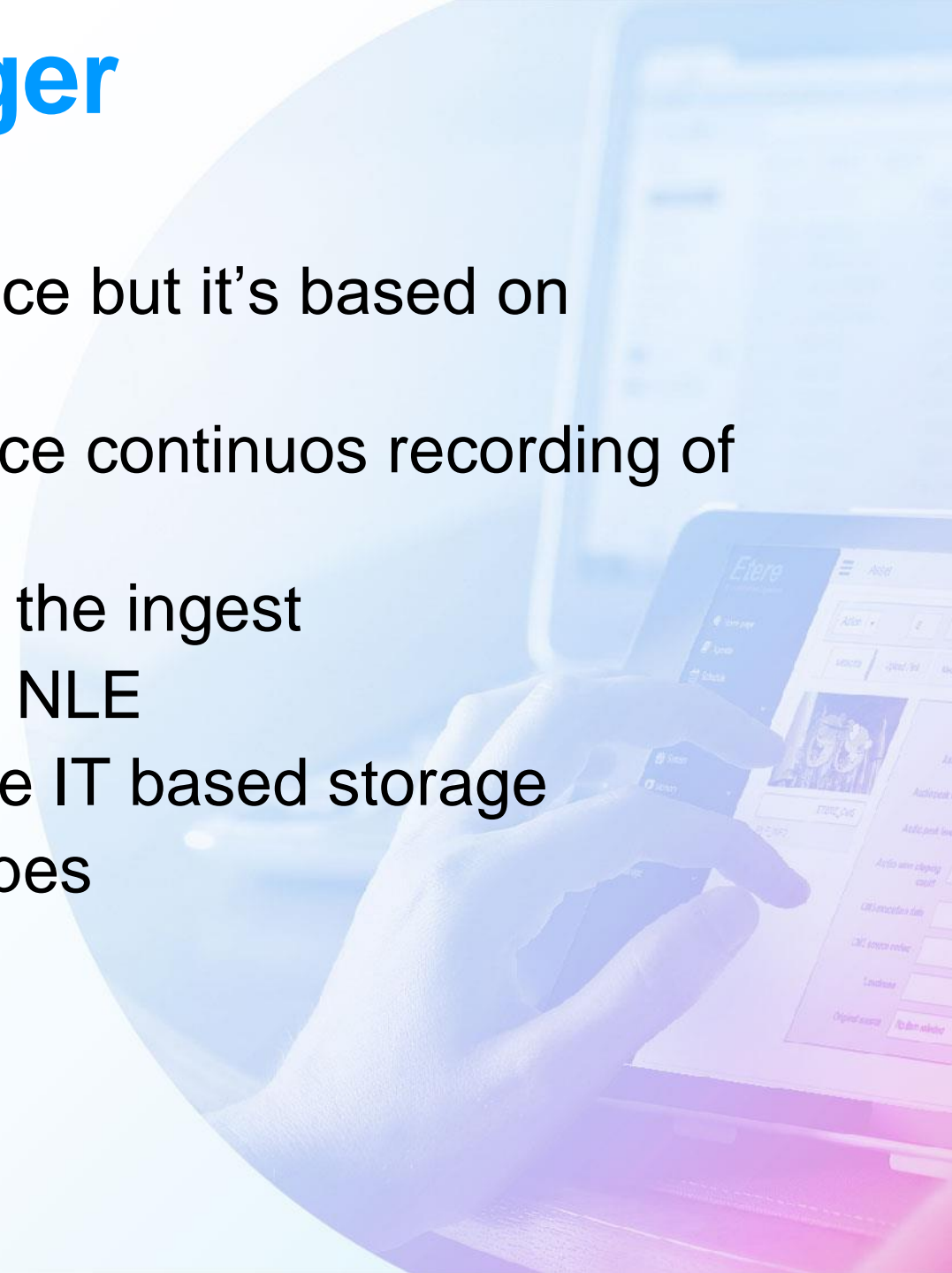
Project Goals

- 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

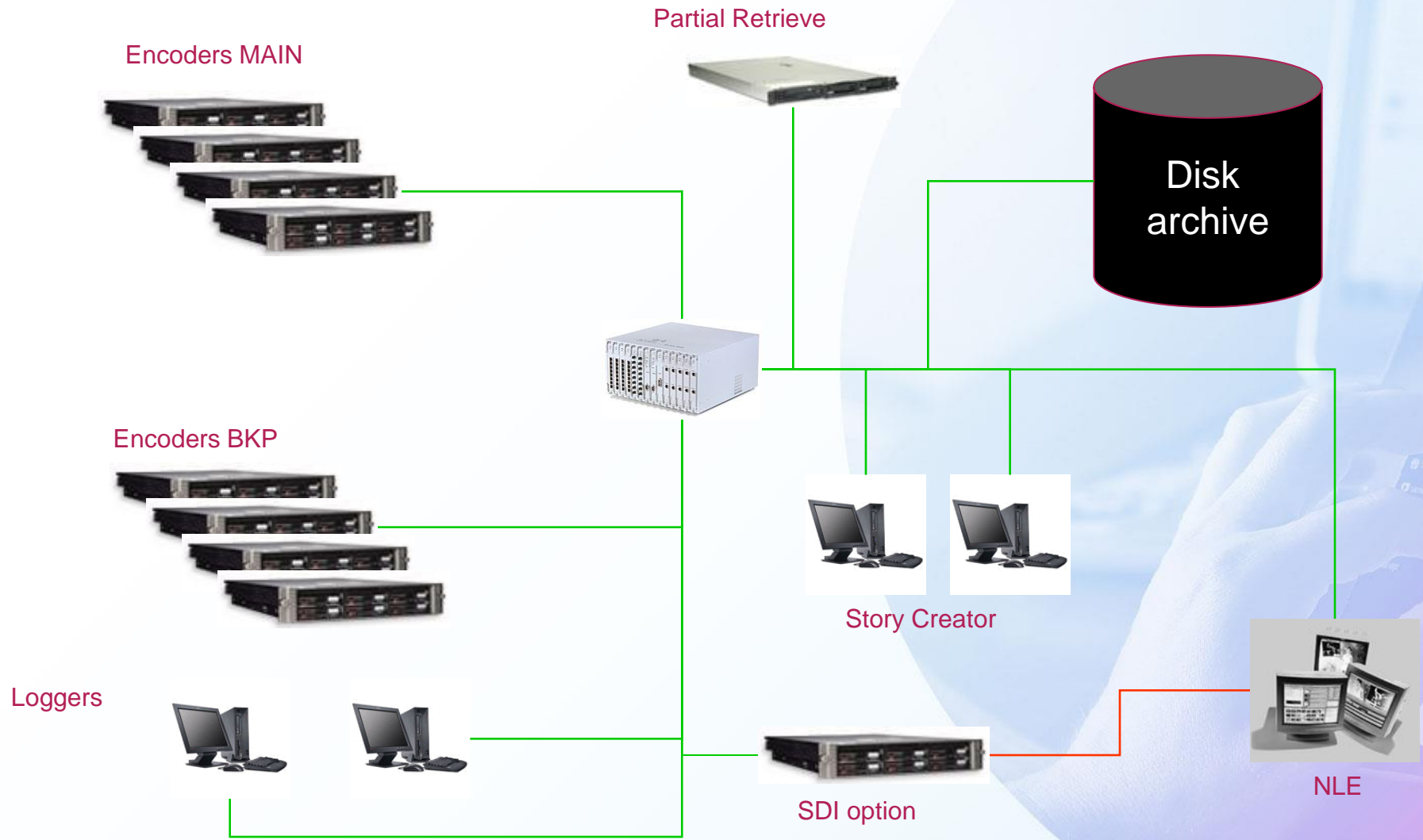


New Logger

- The new logger use the same interface but it's based on different hardware
- Use only one ETX econdor 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



New Diagram



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

