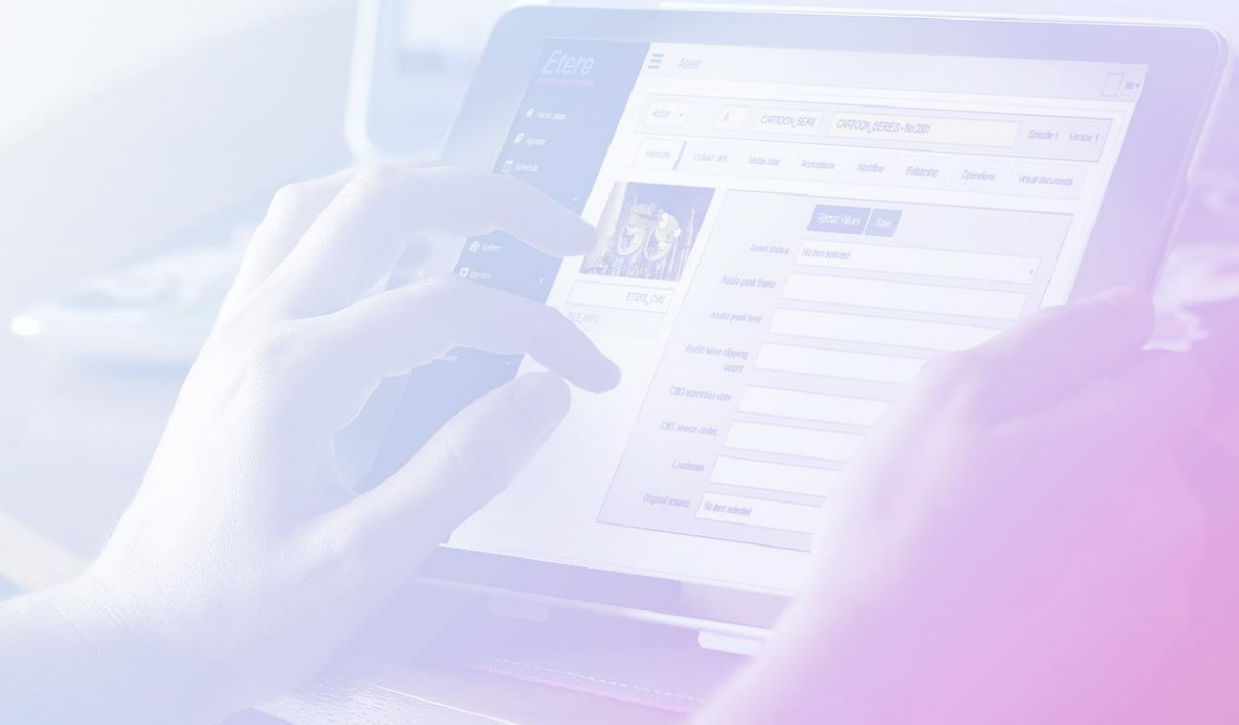


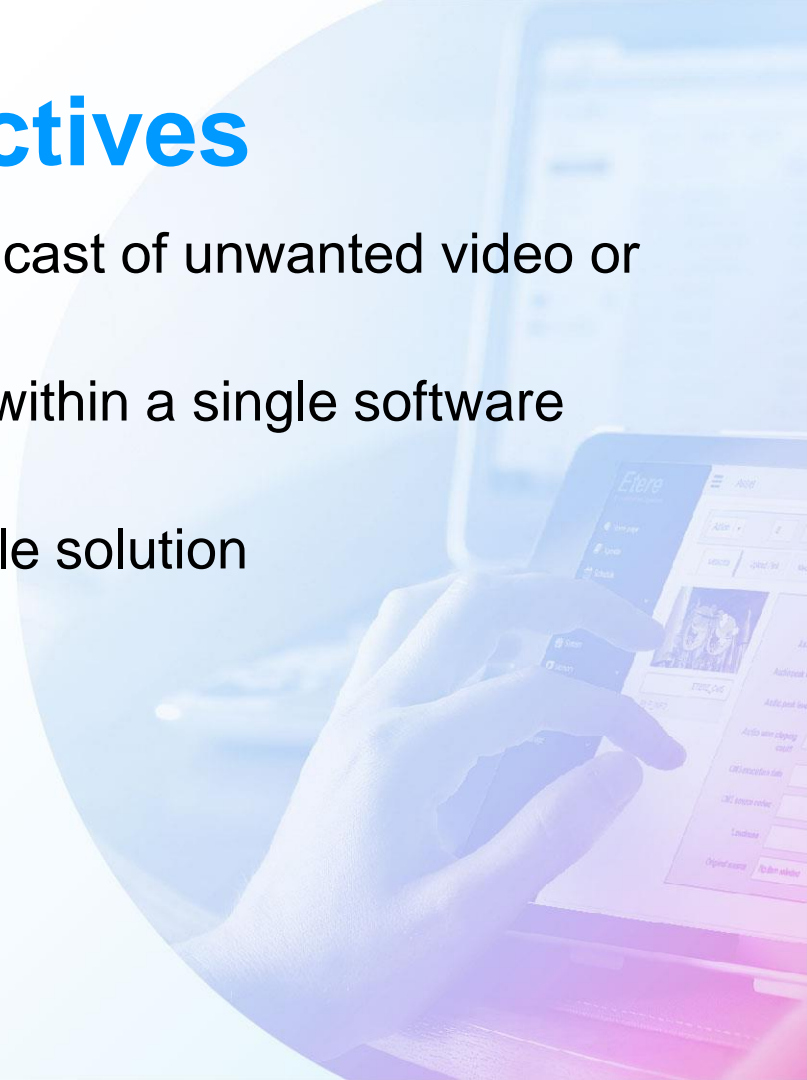
CensorMX

LIVE Content
Control System



CensorMX Objectives

- Content Control means “avoid broadcast of unwanted video or audio”
- All the censorship actions are done within a single software interface
- Provides a reliable, easy and scalable solution



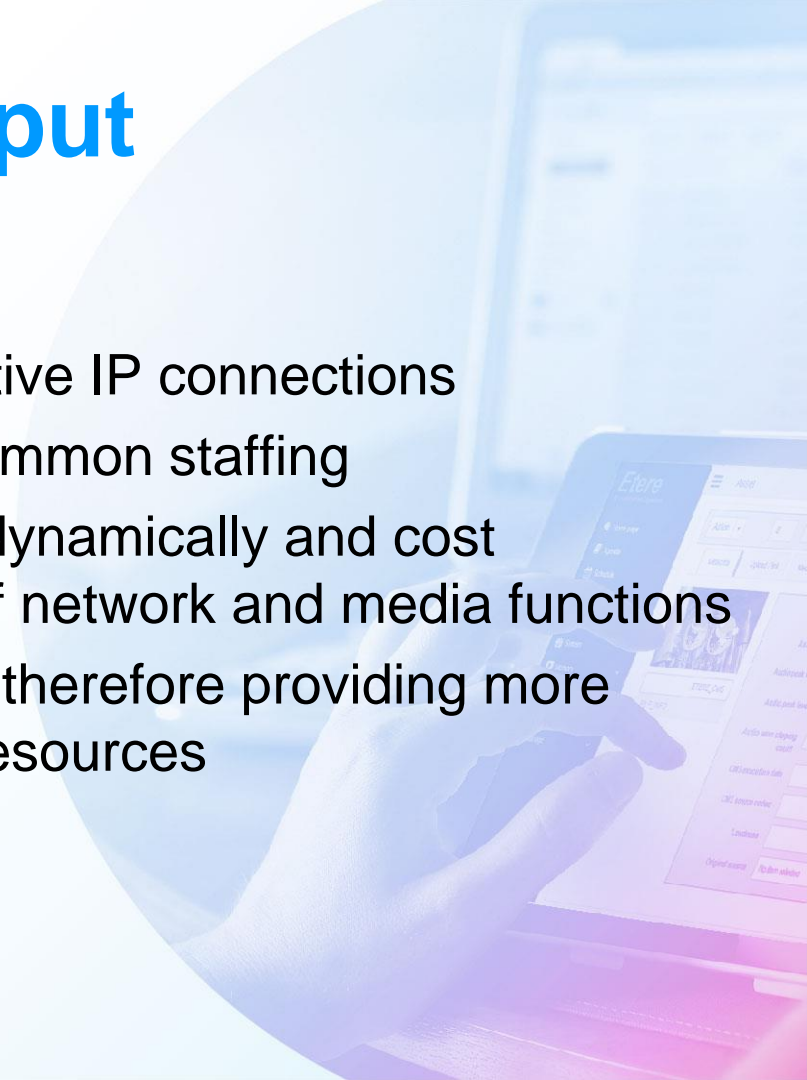
Easy to connect

- CensorMX allows IP input to avoid the use of expensive SDI infrastructure
 - IP/TS
 - NDI
 - SMPTE 2022
- Also output can be any format for easy connect
- NDI monitoring as default to allow easy connection in a IP-only server



Full IP Input

- Flexible and reliable IP input
- Save money with the more cost effective IP connections
- It simplifies operations by enabling common staffing
- It enables new services to be added dynamically and cost effectively through the virtualization of network and media functions
- It delivers flexible scaling of services, therefore providing more efficient use of compute/processing resources



Any resolution

- CensorMX allows you to use any resolution up to 4K
 - SD
 - HD
 - 4k (IP only)



Software Interface



Software Interface

PREVIEW Video

LIVE Video

System Logs

Video Archive

ON AIR Video

Editing Panel

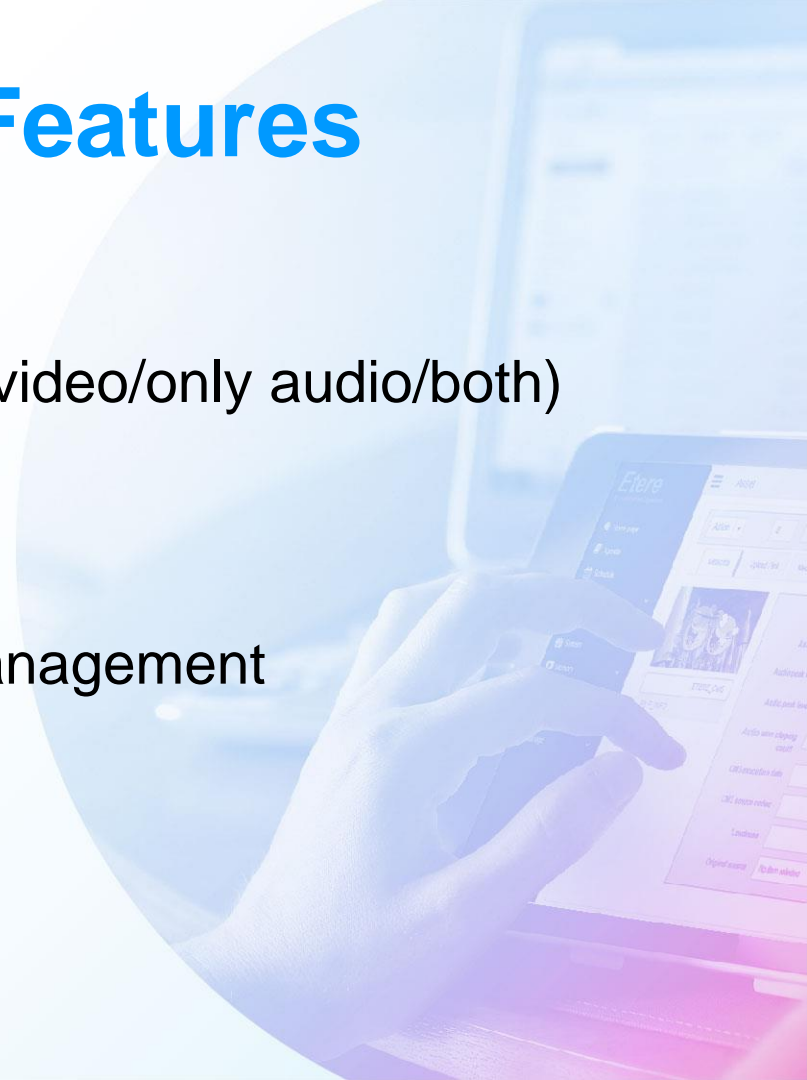
Effects and Transitions

The interface displays the following information:

- ETERE LIVE CENSORSHIP VERSION 10 / 7.0.0**
- CURRENT CHANNEL** (with CHANGE button)
- LIVE IN TIME**: 16:24:44
- START AT**: 16:00:00
- COUNT DOWN TO ON AIR**: 00:08:46
- ACTUALLY ON AIR FRAME EDITED AT**: 16:15:58
- BUFFER STATUS**: Actual: 8.46", Total cut: 6.14"
- ON AIR** window with **CUT TO BLACK** button
- EDITOR** window showing a list of changes and a **REPORT** section.
- ACTION** panel with buttons for CLIP, CUT, BLEEP, and MUTE.
- ALERT MESSAGE** panel with input fields for message text, name, and background color.
- EXTERNAL CLIP** library with filters for VIDEO CLIP, AUDIO CLIP, OTHER CLIP, and ALL, and a grid of clip thumbnails.
- TRANSITION CONTROLS** panel with buttons for TRANSITION, HIDE, and APPLY.
- FULL BUFFER** button.

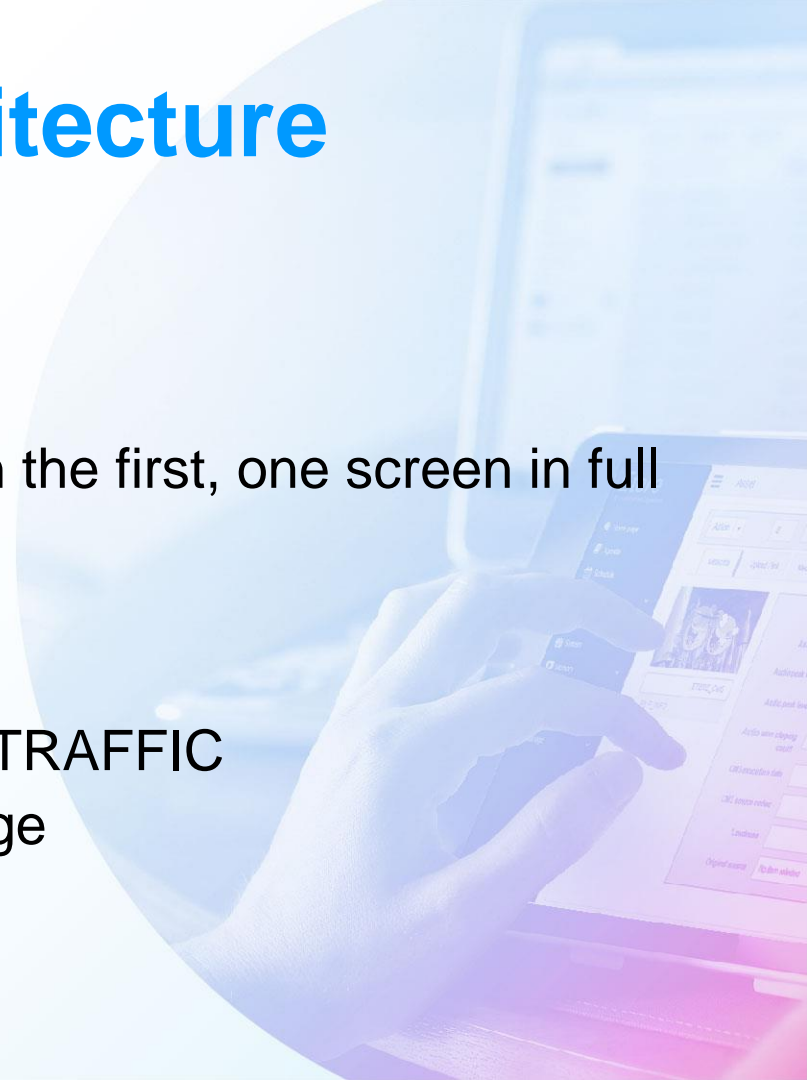
Main Censor Features

- Cut video
- Audio mute and bleep
- Video insertion/replacement (only video/only audio/both)
- Still image insertion/replacement
- Export video in multiple formats
- Video transition effect
- Blur/Mosaic and colored shape management
- Loop file
- Multiple audio management



System Architecture

- Main and backup configuration
- Timecode pass-through
- Client server architecture
- Dual monitor GUI option (main UI on the first, one screen in full size on the second monitor)
- Integration with ETERE MAM
- Integration with ETERE TRAFFIC
- Integration with third part MAM and TRAFFIC
- Works with NAS and local clip storage



Some Features



Basic Features

INSERT CLIP: Clip insertion is used when you need to increase the DELAY

CUT: This action deletes a portion of the original signal. This part will be not broadcasted

BLEEP: A sound will cover the original audio to avoid unwanted words on-air



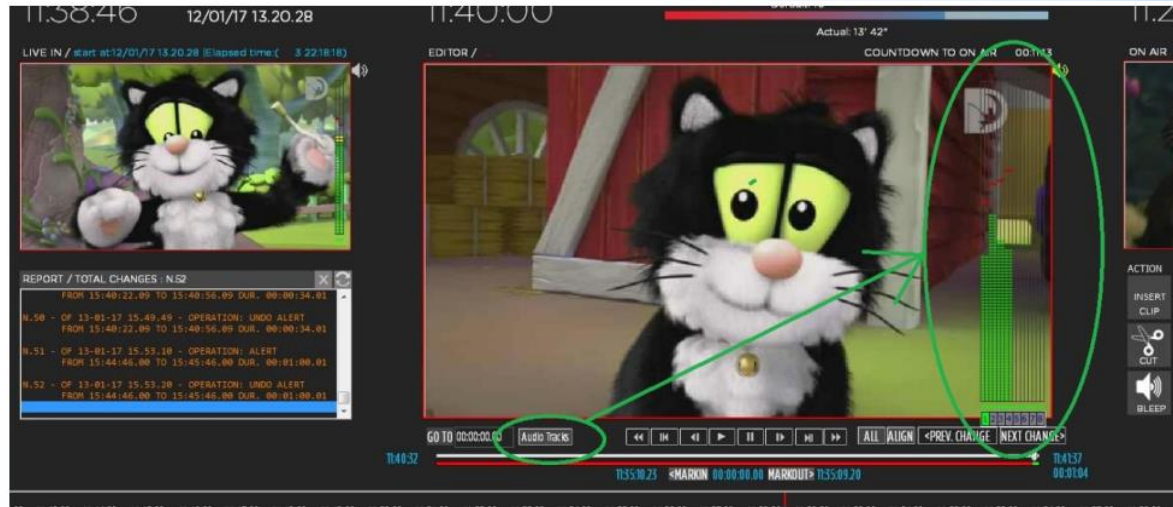
CUT-INSERT: This action will overlap the original signal without modifying the DELAY

MUTE: User can use mute to disable the audio

HIDE: Hide enables the user to operate with the effect Blur, mosaic or full colored shape

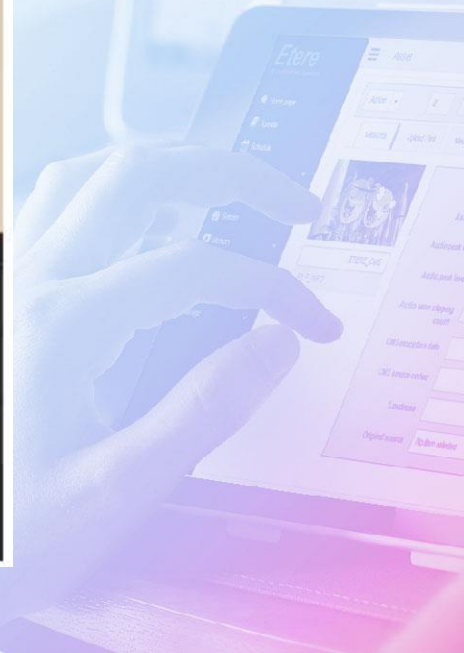
Audio Selection

- Audio selection can be used to listen to audio in different languages



Effects Management

- The grid here on the left is used for the manipulation of frame-by-frame movements to cover motion movements



Effects Management

- In the configuration page, it's possible to set the intensity of BLUR and MOSIAC.

The screenshot displays the configuration page for channel TM 2. The interface is divided into several sections:

- AirNode MAIN:** Includes fields for Address (192.168.1.103), Port (21000), and Source to use (0 - TIMELINE). It also features a 'Connect' button and a 'Disconnect' button.
- Encoder:** Contains settings for Delay Minutes (10), Resolution (1024x1080), Scan Mode, Aspect Ratio (16/9), and Codec (HD_AVI_DV100).
- Common parameters:** This section is highlighted with a green circle. It includes checkboxes for 'View the errors in Errors tab', 'Use UpdateOperationsBasedInternalInsertCut', and 'Ask confirmation for apply actions'. It also features sliders for 'Mosaic resolution in pixel' (set to 40) and 'Blur amount' (set to 15).
- SQL data (common to all Channels):** Includes fields for SQL Server and Database Name, and options for authentication (Windows authentication and Sql Server authentication).

Blur Effect

The screenshot displays the Etere software interface, which is used for video production and broadcasting. The interface is divided into several sections:

- Top Bar:** Contains menu items like "Main", "Configuration", "Errors", and "Timeline". It also shows the "ETERE LIVE CENSORSHIP" status and a "Channel 1" selector.
- Left Panel:** Displays the current time "10:39:24" and "START AT 06/02/17 09:39:12". Below this is a video preview window showing a scene with two people. A "REPORT / TOTAL CHANGES: 1/2" window is open below the preview, showing a list of changes.
- Center Panel:** The main video player area, showing a scene with a yellow wall and a door. A vertical dashed red line separates the "Blurred" (left) and "Normal" (right) versions of the video. Below the player is a timeline with markers for "09:39:12", "02:00:00:20", "MARKER", "00:20:00", "MARKER", and "00:20:00".
- Right Panel:** Shows the "ACTUALLY ON AIR FRAME EDIT" time "10:29:24". It includes buttons for "LOOP FILE", "CUT TO MUTE", and "CUT TO BLACK". Below this is an "ACTION" panel with buttons for "INSERT", "EJECT", "CLT", "MUTE", "3-LEP", and "HIDE". There is also an "EXPORT CLIP" section with a "FILE" dropdown menu.
- Bottom Panel:** A control panel with a "VIEW MORE" button, a "LIVE" indicator, and various playback controls like "FULL SCREEN", "PAUSE/STOP", "SKIP", "REPEAT", and "MUTE".

The interface is designed for real-time video manipulation and monitoring during a broadcast or recording session.

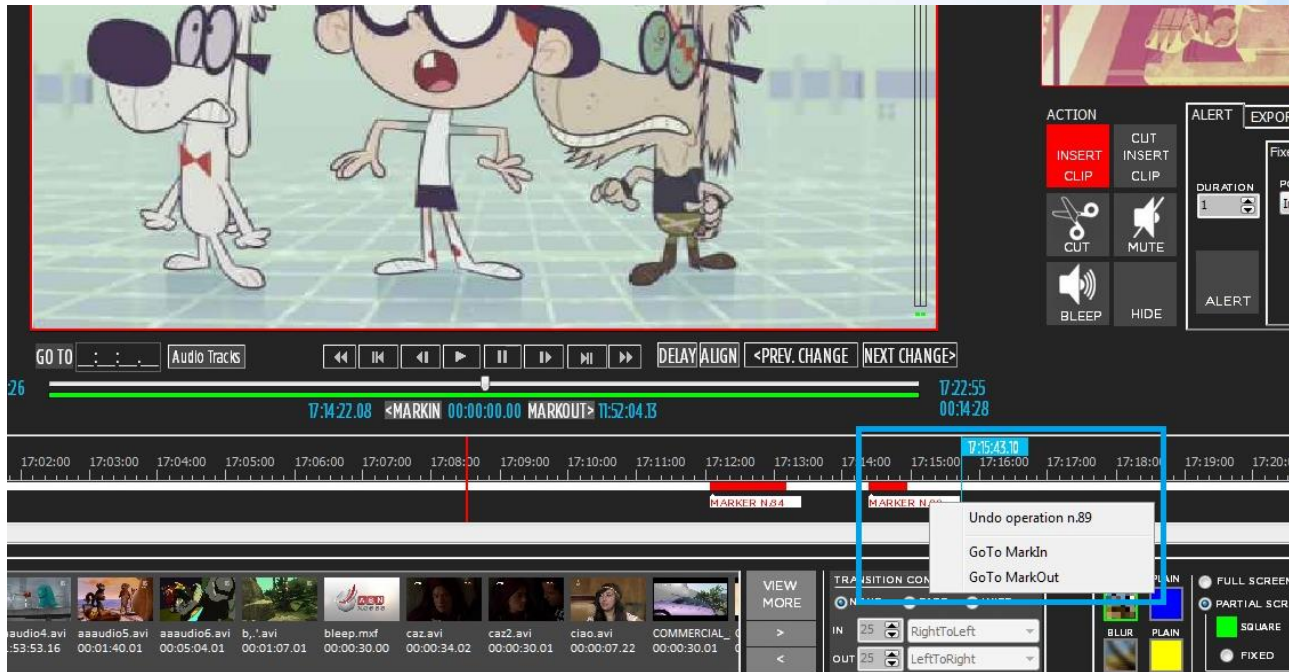
Still Image Insertion

- With CensorMX, it is possible to insert still image in multiple file formats (Like BMP, JPG, TGA)



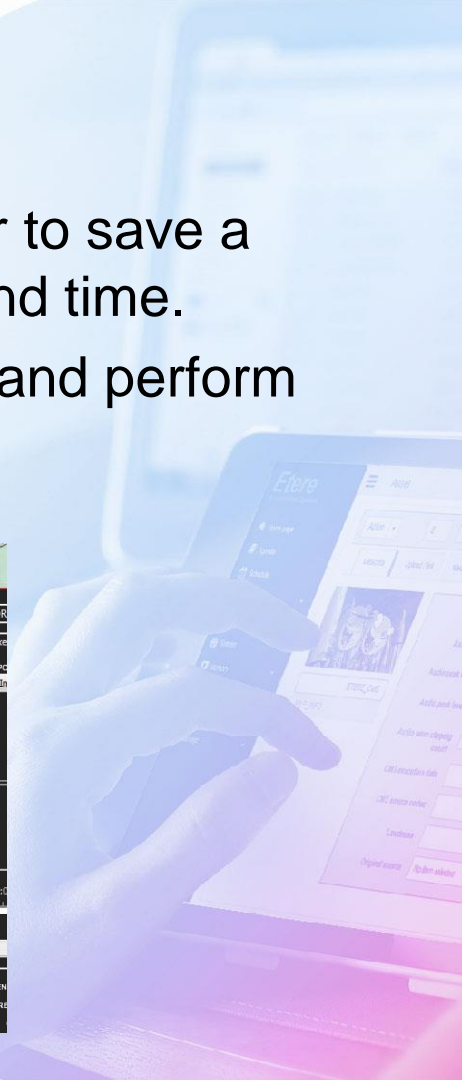
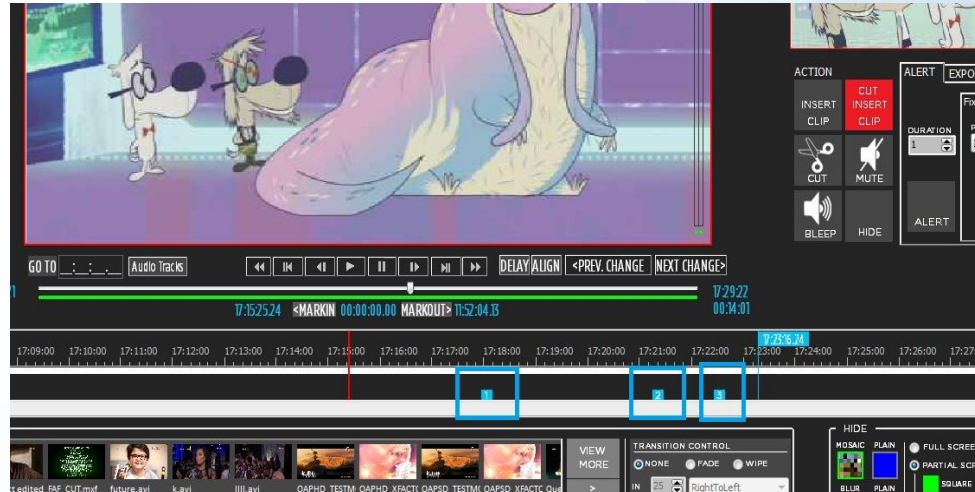
Undo Operations

- Users can UNDO operations in order to set the previous timeline, without the latest action



Bookmarks

- Users can add the bookmarks in the timeline in order to save a position, where they will must do an action in a second time.
- Typically, the operators preview the incoming signal and perform the censorship later.



Clips Info

- CensorMX is able to tell which clips is being used in the editing if deletion or changes need to be done.

The screenshot displays a video editing software interface. The main preview window shows a person holding a photo of the ET alien. The timeline below the preview shows a clip named 'future.avi' selected, with a duration of 00:00:28.16. The clip's start and stop times are 00:00:28.17 and 00:05:13.03, respectively. The interface includes a 'GO TO' field, 'Audio Tracks' button, and various playback controls. A 'MARKER N.98' is visible on the timeline. The 'CLIP INFO' panel on the right shows the clip name 'future.avi', start and stop times, and duration. The 'TRANSITION CONTROL' panel shows 'NONE' selected for the transition.

0.16 DUR. 00:00:28.17
ACTION: UNDO CUT/INSERT
0.00 DUR. 00:01:30.02
ACTION: UNDO CUT/INSERT
0.17 DUR. 00:00:28.18
ACTION: CUT/INSERT
0.15 DUR. 00:00:28.17

GO TO : : : Audio Tracks

7:14:05 7:15:25.24 <MARKIN 00:00:00.00 MARKOUT> 11:52:04.13 7:28:22 00:14:16

17:04:00 17:05:00 17:06:00 17:07:00 17:08:00 17:09:00 17:10:00 17:11:00 17:12:00 17:13:00 17:14:00 17:15:00 17:16:00 17:17:00 17:18:00 17:19:00 17:20:00 17:21:00 17:22:00

MARKER N.98

CUT/INSERT
Start: 27/01/2017 17:15:25
Stop: 27/01/2017 17:15:54
Duration: 00:00:28.16
Clip: future.avi

TRANSITION CONTROL
NONE FADE WIPE
IN 25 RightToLeft
OUT 25 LeftToRight

Clip name is available

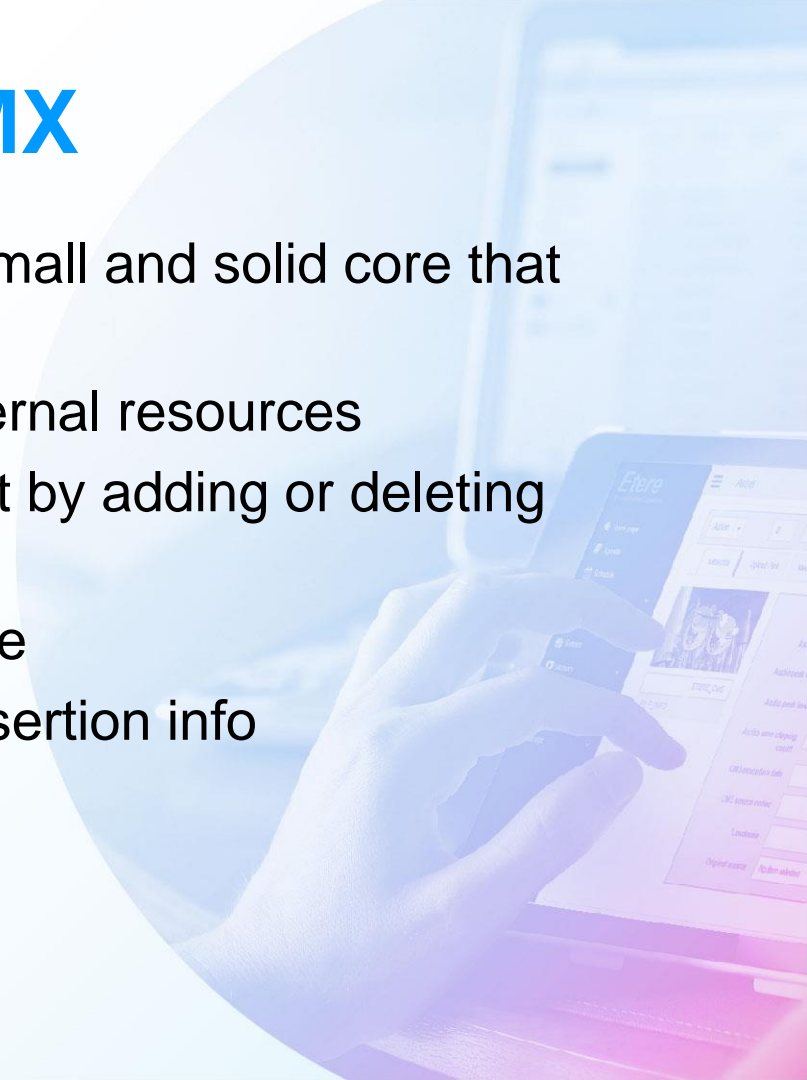
Unbreakable

Built to Be Solid

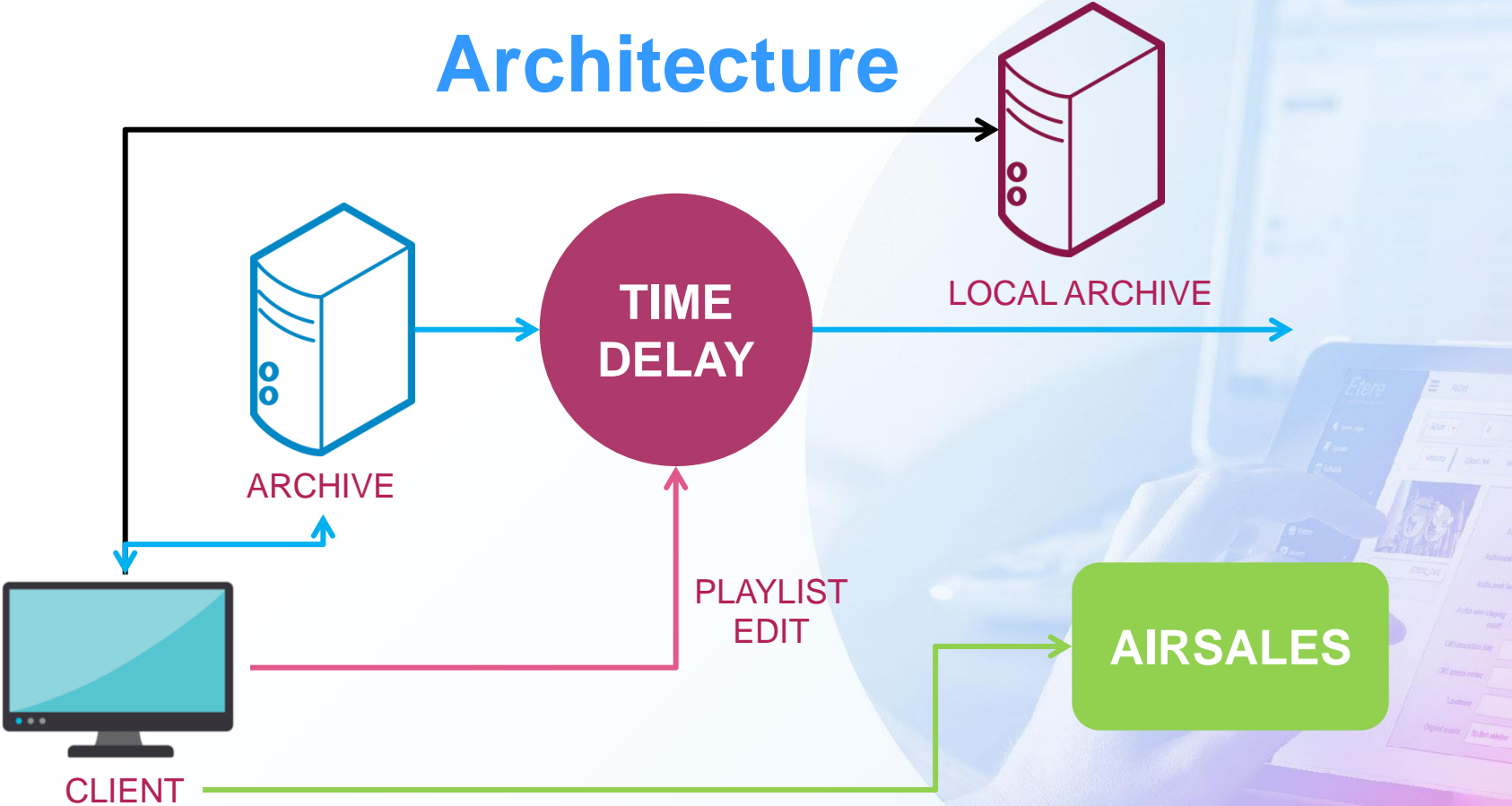


CensorMX

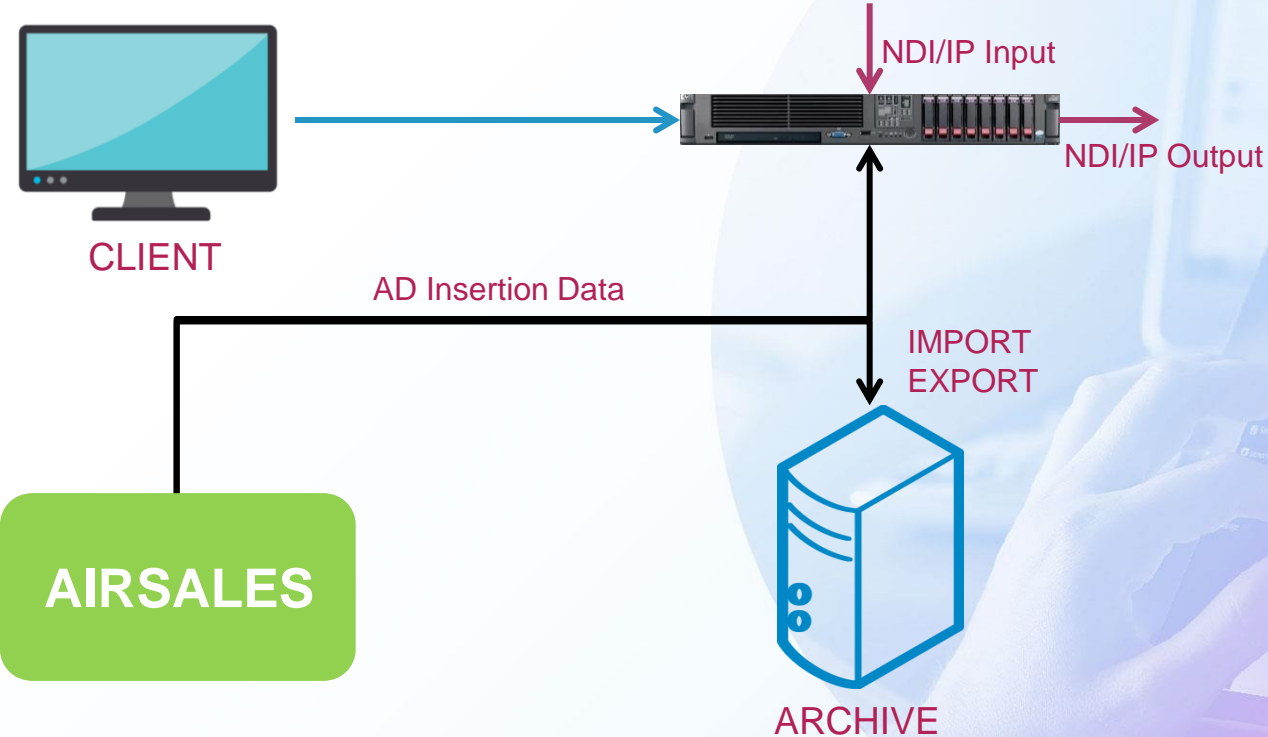
- The architecture is based on a very small and solid core that performs a time delay
- This time delay does not use any external resources
- The client is able to modify the playlist by adding or deleting segments
- It's the client that accesses the archive
- It's the client that accesses the AD insertion info



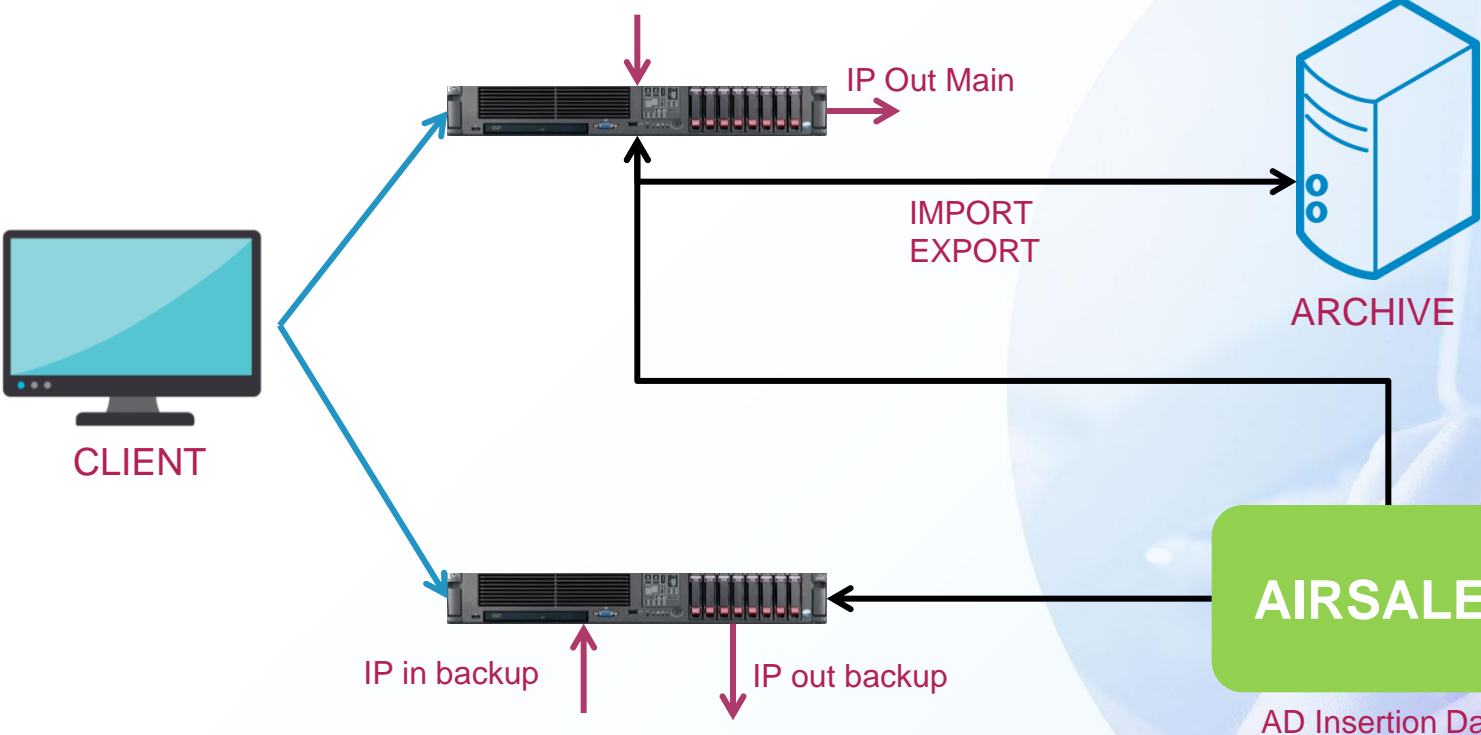
Architecture



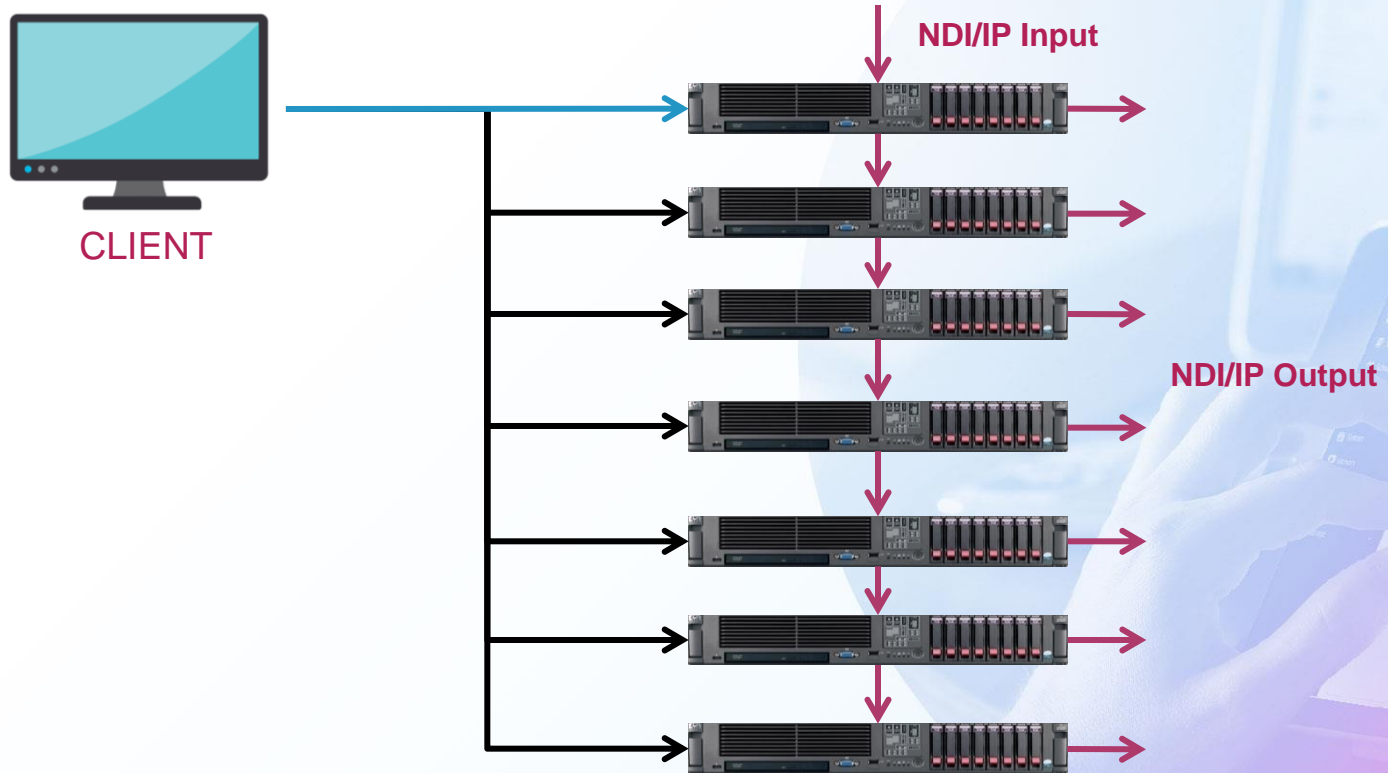
Standalone



Redundant

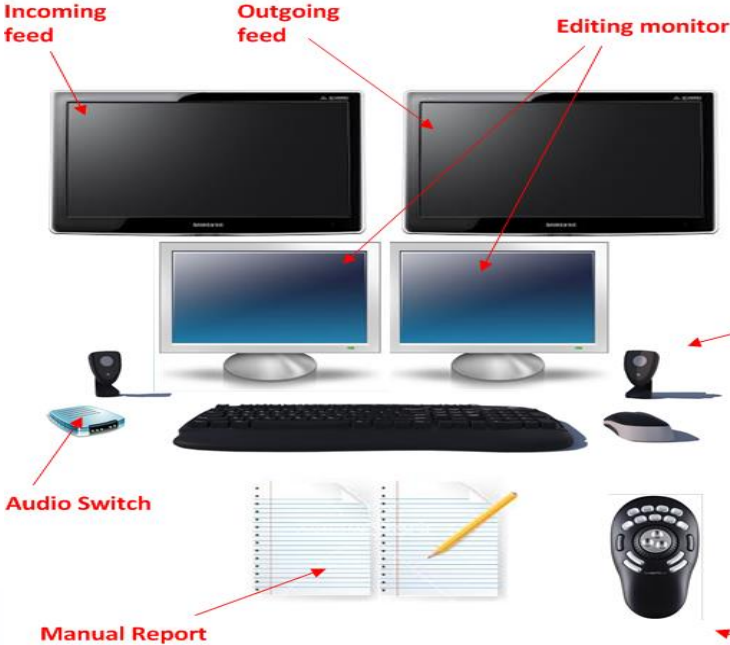


Client Server



Smart Architecture

Traditional Censorship CONFIGURATION



CENSORMX CONFIGURATION



Dual Monitor Display



Etere Green Policy

Please help the planet by downloading all the information you need from our website

www.etere.com

