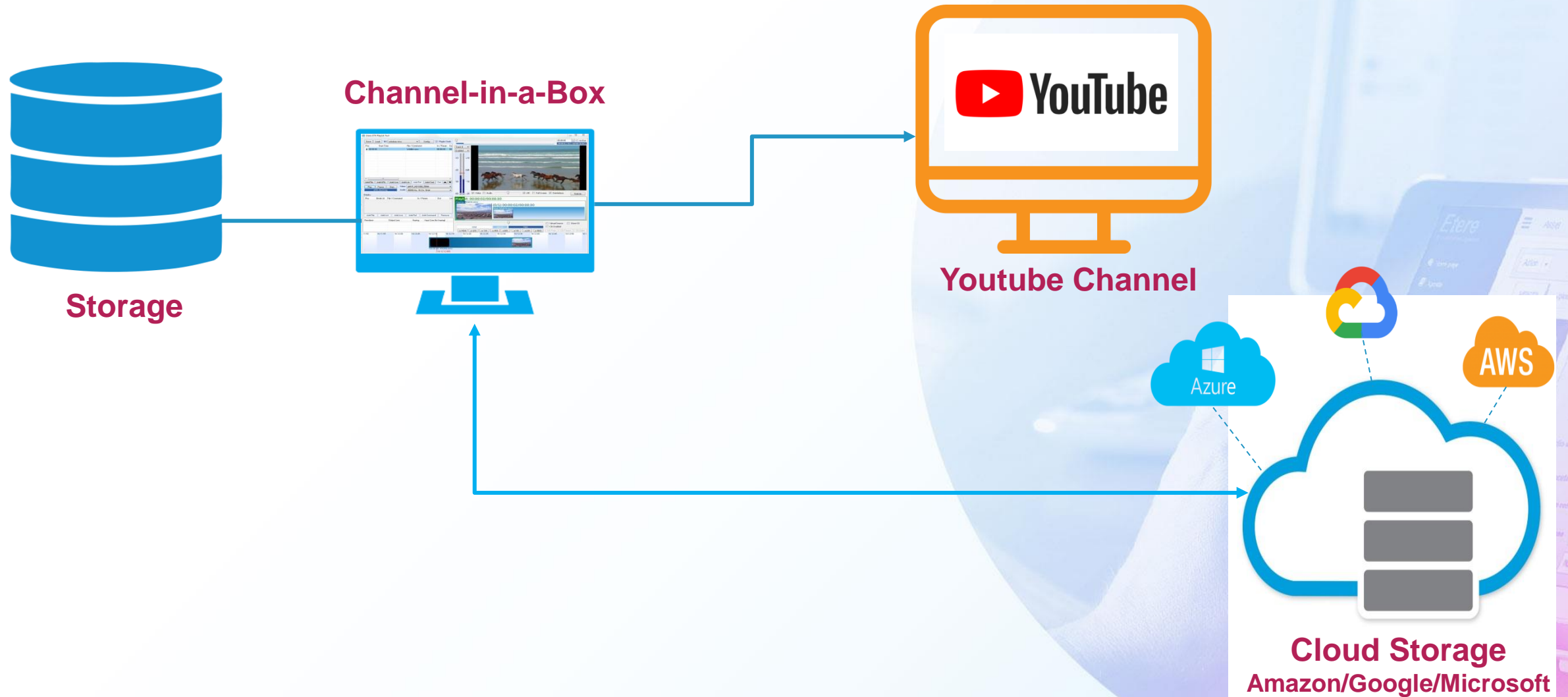


Etere Channel-in-the-Cloud

The Smarter Cloud Solution



How it Works

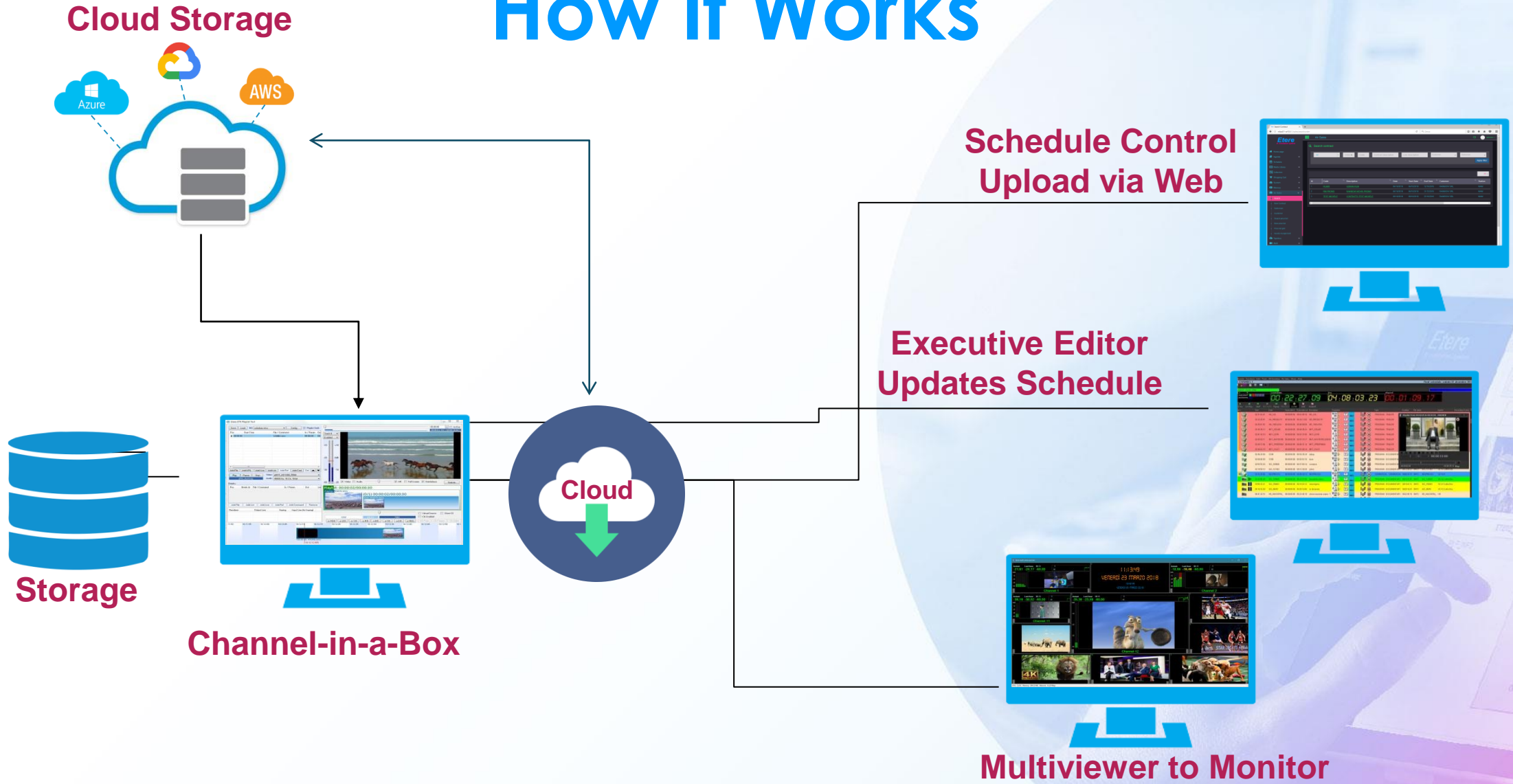


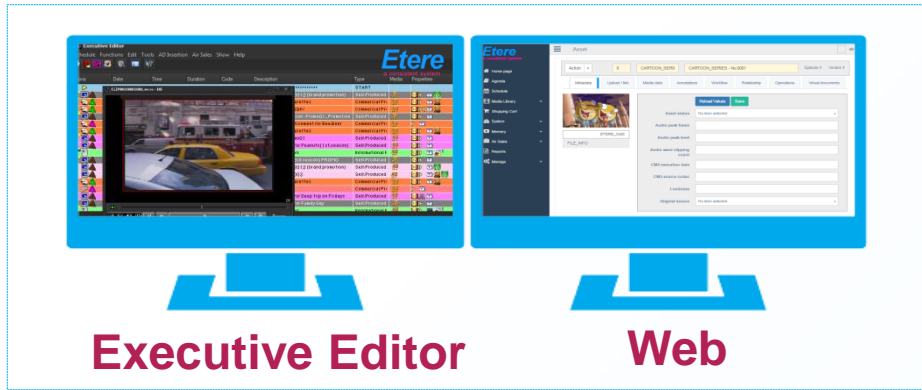
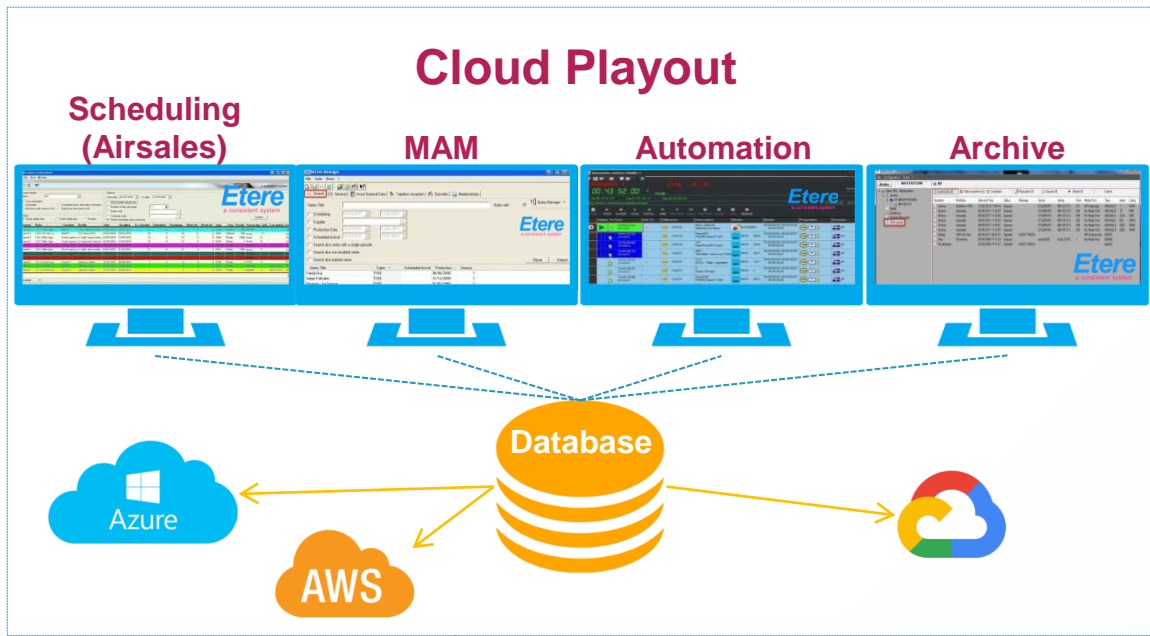
Etere Channel-in-the-Cloud

- Cloud-based channel playout, management and distribution
- Easy expansions of channels without the costs
- Compatible with Amazon Web Services, Microsoft Azure & Google Cloud
- Multi-protocol deliveries
- Live playlist and monitoring
- 4K, SD, HD



How it Works





IP Playout



SDI Playout

SDI



CG Insertions in the Cloud

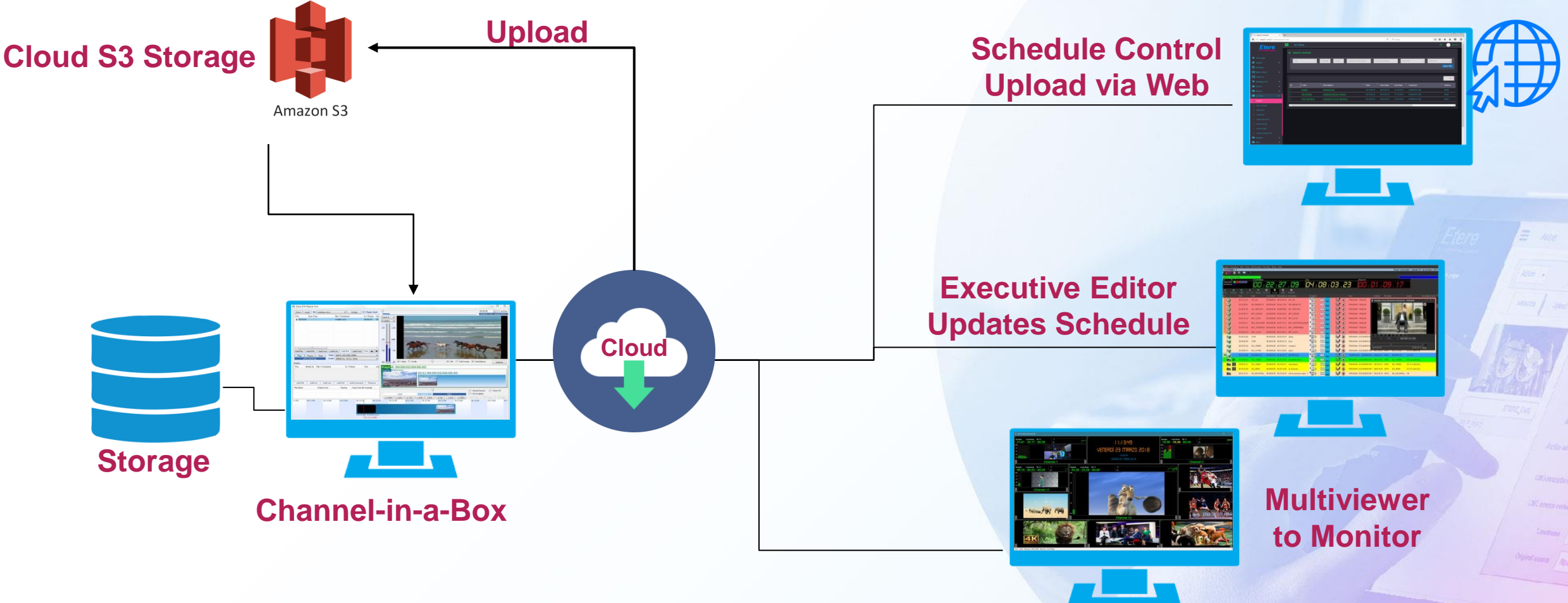
- Multiple overlays of graphics, logos, crawlers, tickets and image sequences
- Integrated with resource editor
- Supports HTML5, TGA, AVI, MOV, SWF, PNG, JPEG and GIF
- Capture web pages as live multimedia sources
- Preview



Functions



Use to Cloud S3 Storage



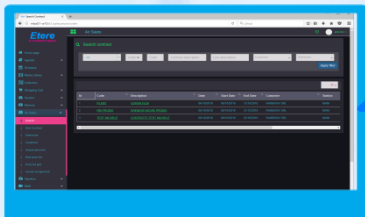
Cloud S3 Storage



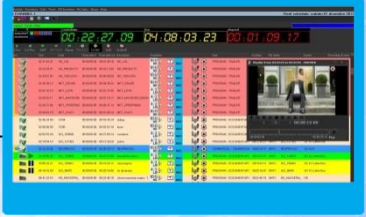
Amazon S3

Upload

Schedule Control Upload via Web



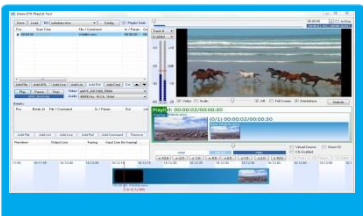
Executive Editor Updates Schedule



Multiviewer to Monitor



Storage

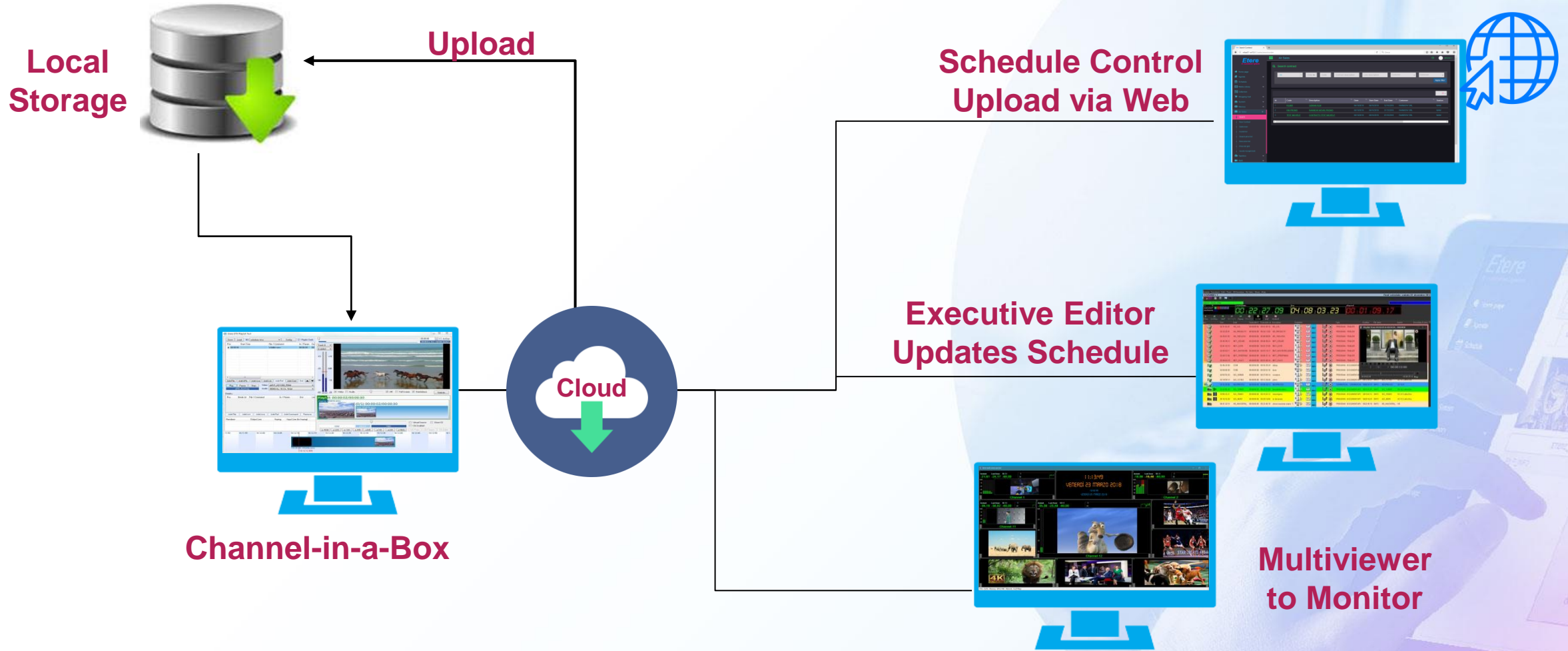


Channel-in-a-Box



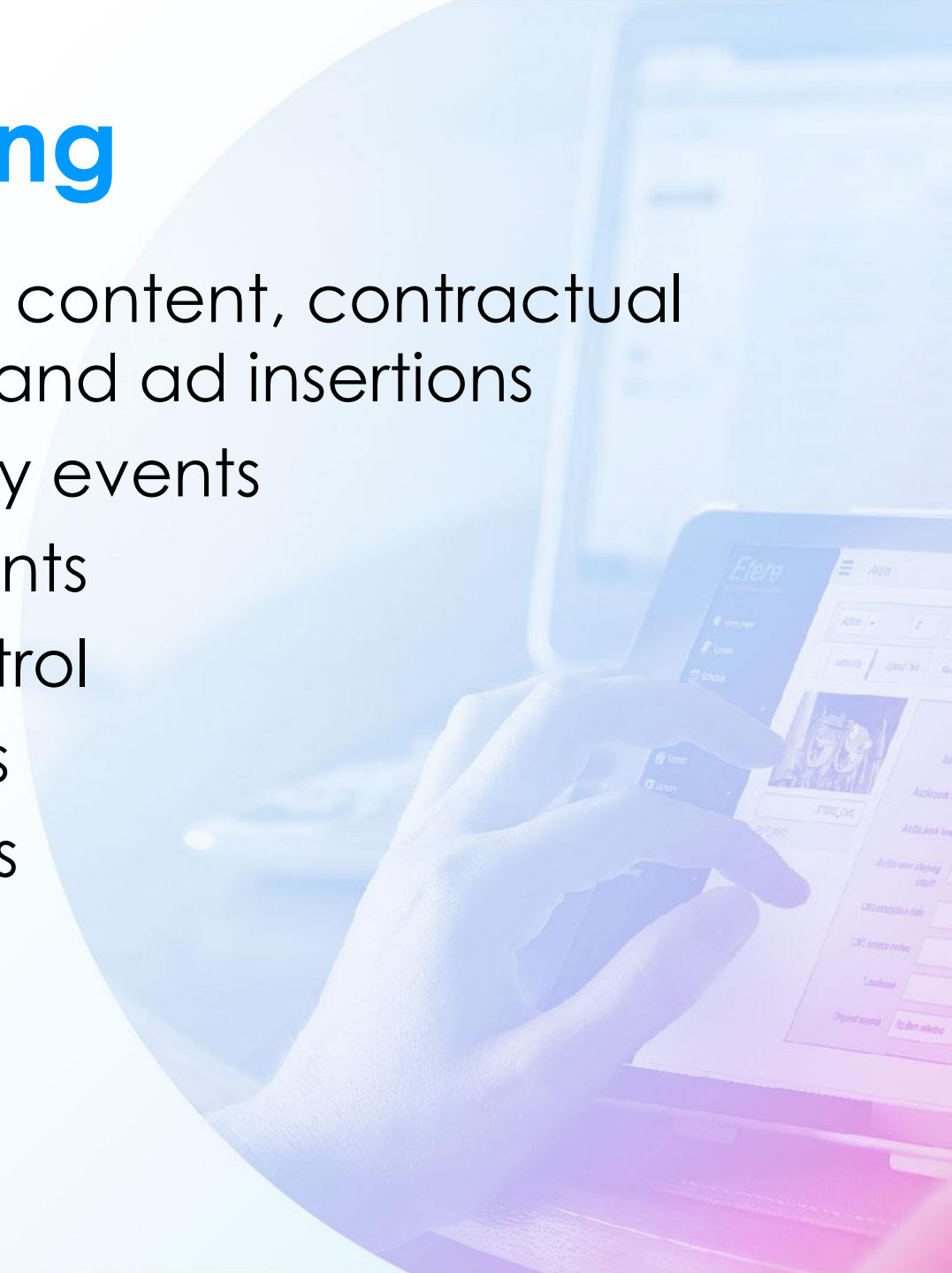
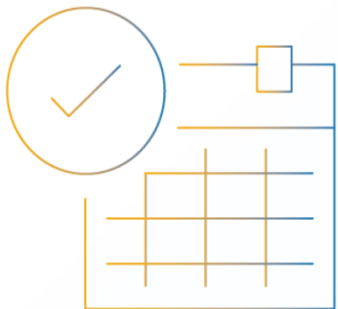
Cloud

Use Only Local Storage



Scheduling

- Manage, plan and insert licensed content, contractual commercials, imported materials and ad insertions
- Insertion of primary and secondary events
- Import and export secondary events
- Media preview and loudness control
- Manage last minute amendments
- Access real-time audience reports



Scheduling

MAM Real schedule, sabato 03 febbraio 2018

st1 - On-Air - Man

countdown 00:00:12.15 ---:---:--- 00:00:00.00

types/break

STILL D-STILL SKIP RESTART Recu PROTECT CLONE LIVE SK2LIVE

Icons	Date	Time	Duration	Secondary Events	Code	Description	Timecode in	Timecode out	Type	Filename	Properties	ID Split	Blocks	Segments	Cluster...
	03/02/2018	15:25:02.16	00:00:14.22		106269AUSOPEN	106269AUSOPEN	00:00:00.00	00:00:14.21	FILM	106269ausopen					
	03/02/2018	15:25:17.13	00:00:29.23	afte	106269AUSOPEN	106269AUSOPEN	00:00:15.01	00:00:44.23	FILM	106269ausopen					
	03/02/2018	15:25:47.11	00:00:29.23	afte	106269AUSOPEN	106269AUSOPEN	00:00:45.01	00:01:14.23	FILM	106269ausopen					
	03/02/2018	15:26:17.09	00:00:29.23	afte	106269AUSOPEN	106269AUSOPEN	00:00:15.01	00:00:44.23	FILM	106269ausopen					
	03/02/2018	15:26:47.07	00:00:29.23	afte	106269AUSOPEN	106269AUSOPEN	00:00:45.01	00:01:14.23	FILM	106269ausopen					
	03/02/2018	15:27:17.05	00:00:29.23	afte	106269AUSOPEN	106269AUSOPEN	00:00:15.01	00:00:44.23	FILM	106269ausopen					
	03/02/2018	15:27:47.03	00:00:29.23	afte	106269AUSOPEN	106269AUSOPEN	00:00:45.01	00:01:14.23	FILM	106269ausopen					
	03/02/2018	15:28:17.01	00:00:29.23	afte	106269AUSOPEN	106269AUSOPEN	00:00:15.01	00:00:44.23	FILM	106269ausopen					
	03/02/2018	15:28:46.24	00:00:29.23	afte	106269AUSOPEN	106269AUSOPEN	00:00:45.01	00:01:14.23	FILM	106269ausopen					
	03/02/2018	15:29:16.22	00:00:11.02		2337MESSI	2337MESSI	00:00:00.00	00:00:11.01	FILM	2337messi					
	03/02/2018	15:29:27.24	00:00:18.17		2339CR7	2339CR7	00:00:00.00	00:00:18.16	FILM	2339cr7					
	03/02/2018	15:29:46.16	00:04:07.04		235848ROLANDG	235848ROLANDGAROS	00:00:00.00	00:04:07.03	FILM	235848rolandgaros					
	03/02/2018	15:33:53.20	00:01:40.23		244387IBRA	244387IBRA	00:00:00.00	00:01:40.22	FILM	244387ibra					
	03/02/2018	15:35:34.18	00:00:16.20		2973NADAL	2973NADAL	00:00:00.00	00:00:16.19	FILM	2973nadal					
	03/02/2018	15:35:51.13	00:00:23.08		2975SHARAPOVA	2975SHARAPOVA	00:00:00.00	00:00:23.07	FILM	2975sharapova					
	03/02/2018	15:36:14.21	00:01:33.15		31067PREMIERE	31067PREMIERE	00:00:00.00	00:01:33.14	FILM	31067premiere					
	03/02/2018	15:37:48.11	00:03:29.20		33783DROGBA	33783DROGBA	00:00:00.00	00:03:29.19	FILM	33783drogba					
	03/02/2018	15:41:18.06	00:47:02.12		32ERD2_HD	32ERD2_HD	10:00:00.00	10:47:02.11	FILM	3zero2_HD					
	03/02/2018	16:28:20.18	00:20:00.09		101950	101950	00:00:00.00	00:20:00.08	FILM	101950					
	03/02/2018	16:48:21.02	00:00:15.00		106269AUSOPEN	106269AUSOPEN	00:00:00.00	00:00:14.24	FILM	106269ausopen					
	03/02/2018	16:48:36.02	00:00:29.24		106269AUSOPEN	106269AUSOPEN	00:00:15.01	00:00:44.24	FILM	106269ausopen					
	03/02/2018	16:49:06.01	00:00:29.24		106269AUSOPEN	106269AUSOPEN	00:00:45.01	00:01:14.24	FILM	106269ausopen					
	03/02/2018	16:49:36.00	00:00:21.24		106269AUSOPEN	106269AUSOPEN	00:01:15.01	00:01:36.24	FILM	106269ausopen					
	03/02/2018	16:49:57.24	00:00:11.01		2337MESSI	2337MESSI	00:00:00.00	00:00:11.00	FILM	2337messi					
	03/02/2018	16:50:09.00	00:20:00.08		101950	101950	00:00:00.00	00:20:00.07	FILM	101950					
	03/02/2018	17:10:09.08	00:00:15.00		106269AUSOPEN	106269AUSOPEN	00:00:00.00	00:00:14.24	FILM	106269ausopen					
	03/02/2018	17:10:24.08	00:00:29.24		106269AUSOPEN	106269AUSOPEN	00:00:15.01	00:00:44.24	FILM	106269ausopen					
	03/02/2018	17:10:54.07	00:00:29.24		106269AUSOPEN	106269AUSOPEN	00:00:45.01	00:01:14.24	FILM	106269ausopen					
	03/02/2018	17:11:24.06	00:00:11.01		2337MESSI	2337MESSI	00:00:00.00	00:00:11.00	FILM	2337messi					
	03/02/2018	17:11:35.07	00:00:18.20		2339CR7	2339CR7	00:00:00.00	00:00:18.19	FILM	2339cr7					
	03/02/2018	17:11:54.02	00:04:07.05		235848ROLANDG	235848ROLANDGAROS	00:00:00.00	00:04:07.04	FILM	235848rolandgaros					
	03/02/2018	17:16:01.07	00:01:41.00		244387IBRA	244387IBRA	00:00:00.00	00:01:40.24	FILM	244387ibra					
	03/02/2018	17:17:42.07	00:00:16.22		2973NADAL	2973NADAL	00:00:00.00	00:00:16.21	FILM	2973nadal					

etx

15:25:02 - 15:25:15 106269AUSOF

15:25:17 - 15:25:47 106269AUSOPEN - 106269AUSOPEN

15:25:47 - 15:26:17 106269AUSOPEN - 106269AUSOPEN

15:26:17 - 15:26:47 106269AUSOPEN - 106269AUSOPEN

15:26:47 - 15:27:17 106269AUSOPEN - 106269AUSOPEN

15:27:17 - 15:27:47 106269AUSOPEN - 106269AUSOPEN

15:27:47 - 15:28:17 106269AUSOPEN - 106269AUSOPEN

15:28:17 - 15:28:46 106269AUSOPEN - 106269AUSOPEN

15:28:46 - 15:29:16 106269AUSOPEN - 106269AUSOPEN

15:26:02 - 15:26:15 test grafica 00:00:14 afte

15:27:02 - 15:27:15 test grafica 00:00:14 afte

15:28:02 - 15:28:15 test grafica 00:00:14 afte

Status Bar

Functions Toolbar

Program main attribute

Secondary Events

Generate Schedule

Icons	Time	Difference	Code	Description	Type	Duration	Timecode in	Timecode out	File name
-------	------	------------	------	-------------	------	----------	-------------	--------------	-----------

Icons	Time	Difference	Code	Description	Type	Duration	Timecode in	Timecode out	File name	Properties	*Format con...	Parental ra
	07:00:00.00		START	START	START	0000:00:00						
	07:00:00.00		1	Wonderwall	VideoClip	0003:45:01	00:00:00.00	00:03:45:00	OK2_1	4:3	SD 4:3	
	07:03:45.01		26	Falling down	VideoClip	0001:00:03	00:00:00.00	00:01:00:02	OK2_26	4:3	SD 4:3	
	07:04:45.04		28	Blank Bottles	MoneyGroup - CD	0000:15:00	00:00:00.00	00:00:14:24	OK2_28	4:3	SD 4:3	
	07:05:00.04		124	Juventus - Real Madrid Champion	UNKNOWN	0090:00:00	00:00:00.00	01:29:59:24	3-Channel 3	4:3	SD 4:3	
	08:35:00.04		27	National Live News	NEWS				1-Channel 1	4:3	SD 4:3	
	08:35:00.05		70	Jeux D'Enfants	FILM				OK2_70	16:9	SD 16:9	
	09:55:00.05		27	Just like a woman	VideoClip				OK2_27	4:3	SD 4:3	
	09:56:10.01		29	She's electric	VideoClip				OK2_29	4:3	SD 4:3	
	10:01:05.12											
	07:00:00.00		END	END								

Properties

drag&drop

***Asset Search**

File Edit Tools Favorites Show Help

a consistent system

Standard | Extended | Flags | Full-text | AI

Description Starts with

ID

Types

Code

Exclude types

Duration

Search

ID	Code	Description	Media
1	1	Wonderwall	OK2_1
2	2	Y' sin embargo	OK2_2
26	26	Falling down	OK2_26
27	27	Just like a woman	OK2_27
29	29	She's electric	OK2_29

Execution time: 00:00:00 Page: 1/3 *Records: 20/45 Sorted by: Code

Description

ID

Types

Code

Exclude types

Duration

Scheduling & Preview

The screenshot displays the Executive Editor software interface. On the left is a scheduling table with columns for Icons, Date, Time, Duration, Code, and Description. The table lists various clips and clusters, including 'Like a rolling stone', 'Wonderwall by Oasis', 'Jeux D'Enfants', 'National Live News', 'Ode to joy', 'Despedida', 'Adagio', 'Juegos de Azar', 'Outta time man', 'Como un explorador', 'You got you learn', 'Vivace martelato', and 'CLUSTER of the hours 17'. The 'Jeux D'Enfants' clip is highlighted in blue. On the right is a video preview window titled 'FILM000000070 - DS' showing a scene from a film with a white van and people. The preview window includes a timeline at the bottom with a playhead at 00:00:00.00 and playback controls. A blue box labeled 'Preview' points to the video window.

Icons	Date	Time	Duration	Code	Description
▶	02/02/2015	06:00:00.00	00:00:00.00	START	***** START *****
▶	02/02/2015	06:00:00.00	09:00:00.00		
▶	02/02/2015	15:00:00.00	00:03:05.22	CLIP00000C	Like a rolling stone
▶	02/02/2015	15:03:05.22	00:05:52.19	CLIP00000C	Wonderwall by Oasis
▶	02/02/2015	15:08:58.16	00:09:48.15	FILM00000I	Jeux D'Enfants
▶	02/02/2015	15:18:47.06	00:45:00.00	NEWS0000	National Live News
▶	02/02/2015	16:03:47.06	00:05:52.19	CLIP00000C	Wonderwall by Oasis
▶	02/02/2015	16:09:40.00	00:01:33.15	CLIP00000C	Ode to joy
▶	02/02/2015	16:11:13.15	00:00:38.02	CLIP00000C	Despedida
▶	02/02/2015	16:11:51.17	00:01:00.05	CLIP00000C	Adagio
▶	02/02/2015	16:12:51.22	00:05:20.00	CLIP00000C	Juegos de Azar
▶	02/02/2015	16:18:11.22	00:02:00.04	CLIP00000C	Outta time man
▶	02/02/2015	16:20:12.01	00:59:59.24	CLIP00000C	Como un explorador
▶	02/02/2015	17:20:12.00	00:04:22.00	CLIP00000C	You got you learn
▶	02/02/2015	17:24:34.00	00:01:59.24	CLIP00000C	Vivace martelato
▶	02/02/2015	17:26:33.24	00:02:09.15	CLUSTER	CLUSTER of the hours 17
▶	02/02/2015	17:28:43.14	00:00:00.01	PROM0000C	Promo for 'Italian Tales' (p
▶	02/02/2015	17:28:43.15	00:25:21.12	Italian Folk.	Italian Folktales - No-000
▶	02/02/2015	17:54:05.02	00:01:25.01	CLUSTER	CLUSTER of the hours 17
▶	02/02/2015	17:55:30.03	00:00:30.00	CLUSTER	CLUSTER of the hours 17
▶	02/02/2015	17:56:00.03	00:00:00.01	CLUSTER	CLUSTER of the hours 17
▶	02/02/2015	17:56:00.04	00:00:11.13	STORY000C	Story No-00041 New Yor
▶	02/02/2015	17:56:11.17	12:03:48.08		
▶	03/02/2015	06:00:00.00	00:00:00.00	END	***** END *****

Preview and Trim

The screenshot displays the Ingest software interface, which is used for managing video recording and playback. The interface is divided into several sections:

- Left Panel (Metadata):** Contains fields for ID (787), Code, Title, Types, Scheduling Date (09/07/2011), and Unrecorded assets.
- Top Right Panel (Job Info):** Shows Code: INTERVIEW, Description: INTERVIEW, Start/End times, Expected duration (4:3 SD), and Duration (01:30:00,00).
- Center Panel (Preview & Trim while recording):** A large button with a blue border and a blue arrow pointing to the video preview window. Below it are 'Resources' settings (Source: LIVE, Router: C-01, Input channel: 1 - LIVE1) and an 'Ingesting...' table.
- Right Panel (Blocks):** A table with columns for SOM and EOM, currently empty.
- Bottom Panel (Playback/Recording Controls):** Includes a video preview window showing a man speaking, a progress bar, and playback controls (Play, Stop, Previous, Next). Below the video window are buttons for 'View log', 'Save log', and a help icon.

Ingesting...			TC	DR	E/E
Confidence:	Activate	Lock To Rec		00.00.00,00	
Proxy	Preview	REC	00.00.00,11		
*Third:			00.00.00,00		
Backup:		REC	00.00.00,11		
Main:		REC	00.00.00,11		

Free space: 25.38.00,00 Movie: 787 0

Segments Number=0

Web View

The screenshot shows a 'Schedule' web interface. At the top, there is a header with a logo and the text 'Schedule' and 'sis@italy.etere.com'. Below the header is a control panel with the following fields:

- DATE:** 26/11/2017
- TIME ZONE:** [Dropdown menu]
- CLUSTER:** Compressed
- SCHEDULE:** Real schedule
- STATION:** MAM

Callouts point to these fields: 'Date' points to the DATE field, 'Cluster' points to the CLUSTER field, 'Station' points to the STATION field, 'Time Zone' points to the TIME ZONE field, and 'Schedule' points to the SCHEDULE field. Below the control panel is a table of schedule entries with columns for time, program name, and other details.

Time	Program	Channel	Date	Icons	
06:00:00.00	NOOP	3/17/2016	3/17/2016	[Icons]	
06:00:00.00	NOOP	3/17/2016	3/17/2016	[Icons]	
10:24:47.00	ARGO	HS	3/17/2016	[Icons]	
10:27:45.08	RIBELLE - THE BRAVE	BRAVE	ENT	3/17/2016	[Icons]
10:30:03.18	CLOUD Episode 1	CS81	SPOR	3/17/2016	[Icons]
10:30:20.19	BIKE	CS83	SPOR	3/17/2016	[Icons]
10:31:13.04	Break	06:05:00.00	J	3/17/2016	[Icons]
10:54:39.12	DUBAI	CS04	ENT	3/17/2016	[Icons]
10:55:13.07	RIBELLE - THE BRAVE	BRAVE	ENT	3/17/2016	[Icons]
10:57:31.18	A BORDO RING	CS85	SPOR	3/17/2016	[Icons]
11:00:22.21	ARGO	HS	3/17/2016	[Icons]	
11:04:22.24	RIBELLE - THE BRAVE	BRAVE	ENT	3/17/2016	[Icons]
11:06:41.09	CLOUD Episode 1	CS81	SPOR	3/17/2016	[Icons]
11:06:58.10	BIKE	CS83	SPOR	3/17/2016	[Icons]
11:07:50.20	Break	06:17:00.00	J	3/17/2016	[Icons]
11:08:47.07	DUBAI	CS04	ENT	3/17/2016	[Icons]
11:12:15.20	A BORDO RING	CS85	SPOR	3/17/2016	[Icons]

Monitor Playout: ETX-M Multiviewer

Loudness Control

Pass

Errors

The screenshot displays the ETX-M Multiviewer interface, which is a software tool for monitoring and playout of multiple video streams. The interface is organized into a grid of video feeds and two central program monitors.

Video Feeds: The interface shows a grid of 24 video feeds, each labeled "SATELLITE". The feeds are arranged in a 4x6 grid. The top two rows show various scenes, including a bridge, a cityscape, a cartoon character, a waterfall, a lake, and a man's face. The bottom two rows show a cathedral, a cityscape, a couple in a blue filter, a couple in a blue filter, a couple in a blue filter, and a couple in a blue filter.

Program Monitors: The interface features two central program monitors, each with a title, a progress bar, and a list of errors.

- Top Program Monitor:**
 - Title: Family Spacing Out (VID)
 - Progress: 00:26:08
 - Title: Logo Wriggle (GFX)
 - Progress: 00:12:32
 - Status: Pass
 - Errors:
 - 22:18:26 Astronaut Landing
 - 20:20:56 Logo 4 not uploaded
 - 18:31:02 Earthling Running
 - 20:19:02 Logo 4 can't be streamed
 - 17:59:34 News at 6
 - 19:40:34 Gap in timing sequence
- Bottom Program Monitor:**
 - Title: Couple In Blue Filter (VID)
 - Progress: 00:46:08
 - Title: Logo Fade In (GFX)
 - Progress: 00:50:32
 - Status: Pass
 - Errors:
 - 15:18:26 Couple in Blue Filter
 - 15:20:56 Logo 2 not uploaded
 - 14:21:02 Logo 1 streamed
 - 15:19:02 Logo 2 can't be streamed
 - 13:40:34 News flash
 - 13:40:34 Timing sequence incorrect

Labels: The interface includes several labels: "Loudness Control" (pointing to a green bar on the left), "Pass" (pointing to the status bar), and "Errors" (pointing to the error list).

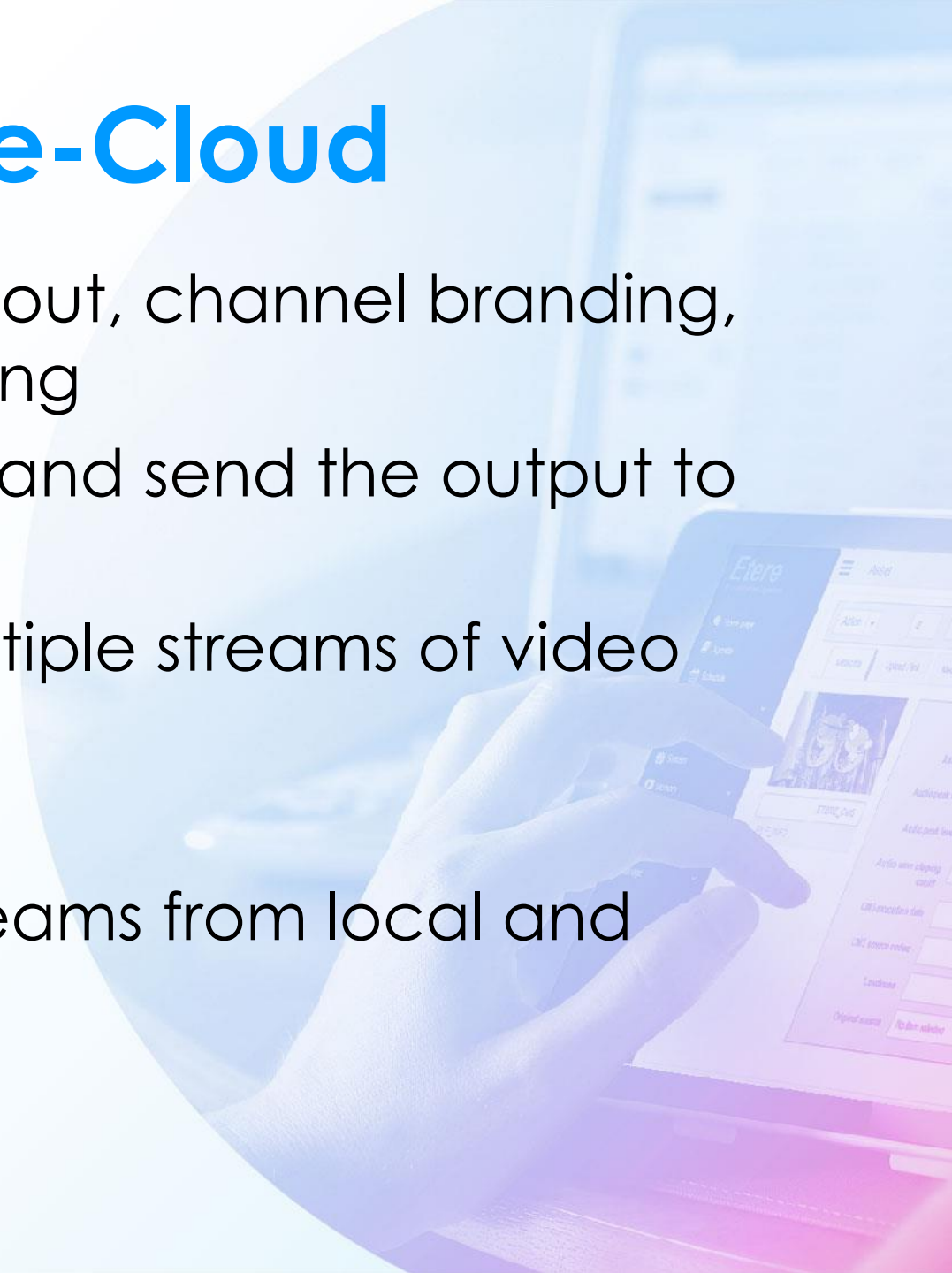
Etere ETX-M IP Multiviewer

- Manage multiple inputs of network & live video sources for simultaneous broadcast
- Record simultaneously for live video & network video broadcast
- 4K resolution monitoring
- Up to 9 display monitors
- Up to 30 video streams in real-time
- Automatic email alerts
- Supports all stream types

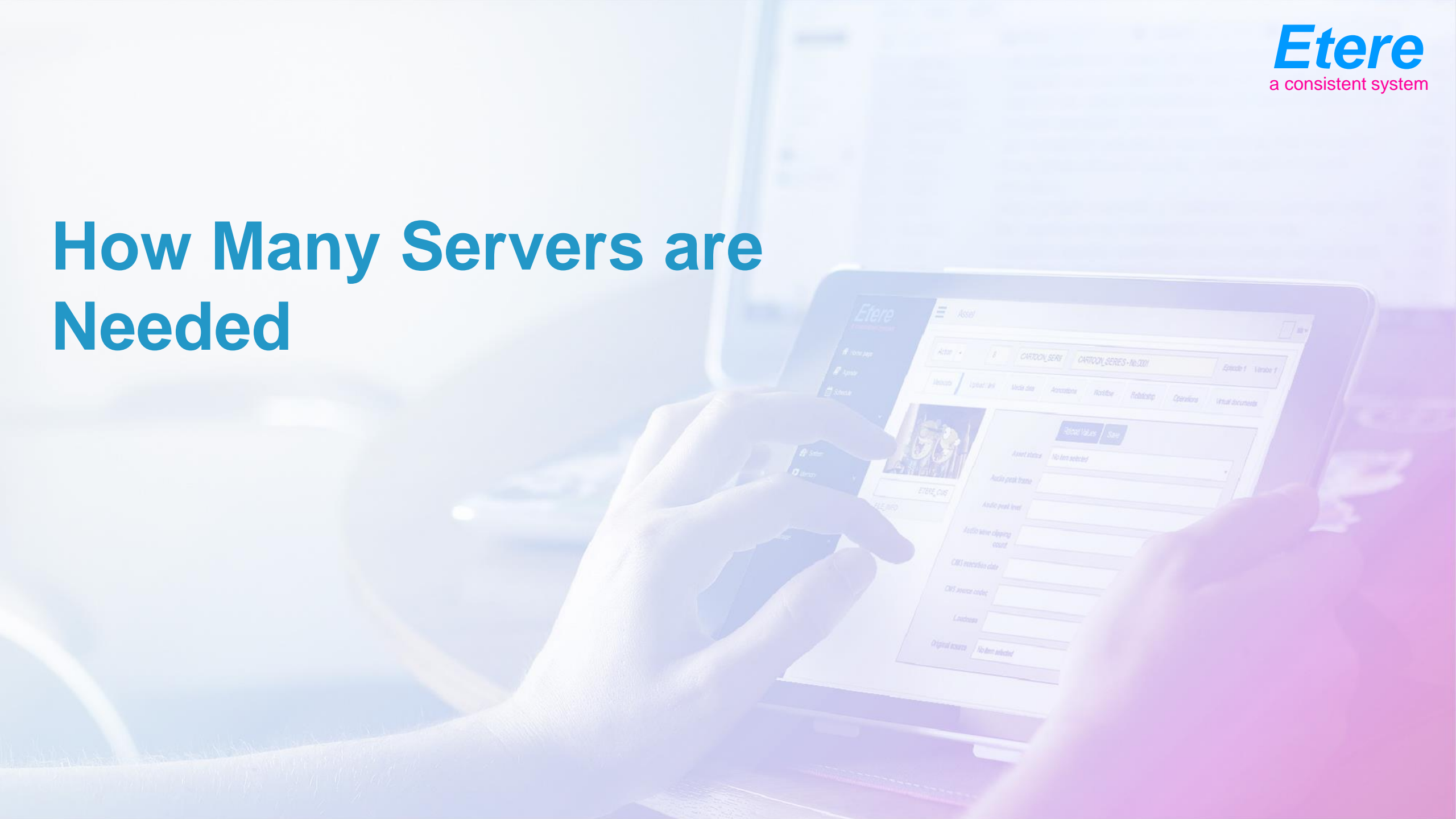


Channel-in-the-Cloud

- A single license: Automation, playout, channel branding, master control, analytics, monitoring
- Automation can play any playlist and send the output to any CDN provider
- Encode, transmit and receive multiple streams of video and audio in real-time
- Low latency monitoring
- Etere IP Multiviewer to monitor streams from local and remote sources



How Many Servers are Needed



How Many Servers

- There are no fixed rules, however there are a few consideration factors:
 - 1 server
 - Single channel playout
 - 2 users connect remotely
 - Add another if transcoding and large data movement are needed
 - Add other servers if your CPU/IO will be overloaded
- GPU acceleration
 - You may need to use
 - H265/H264
 - DVB out



www.etere.com

