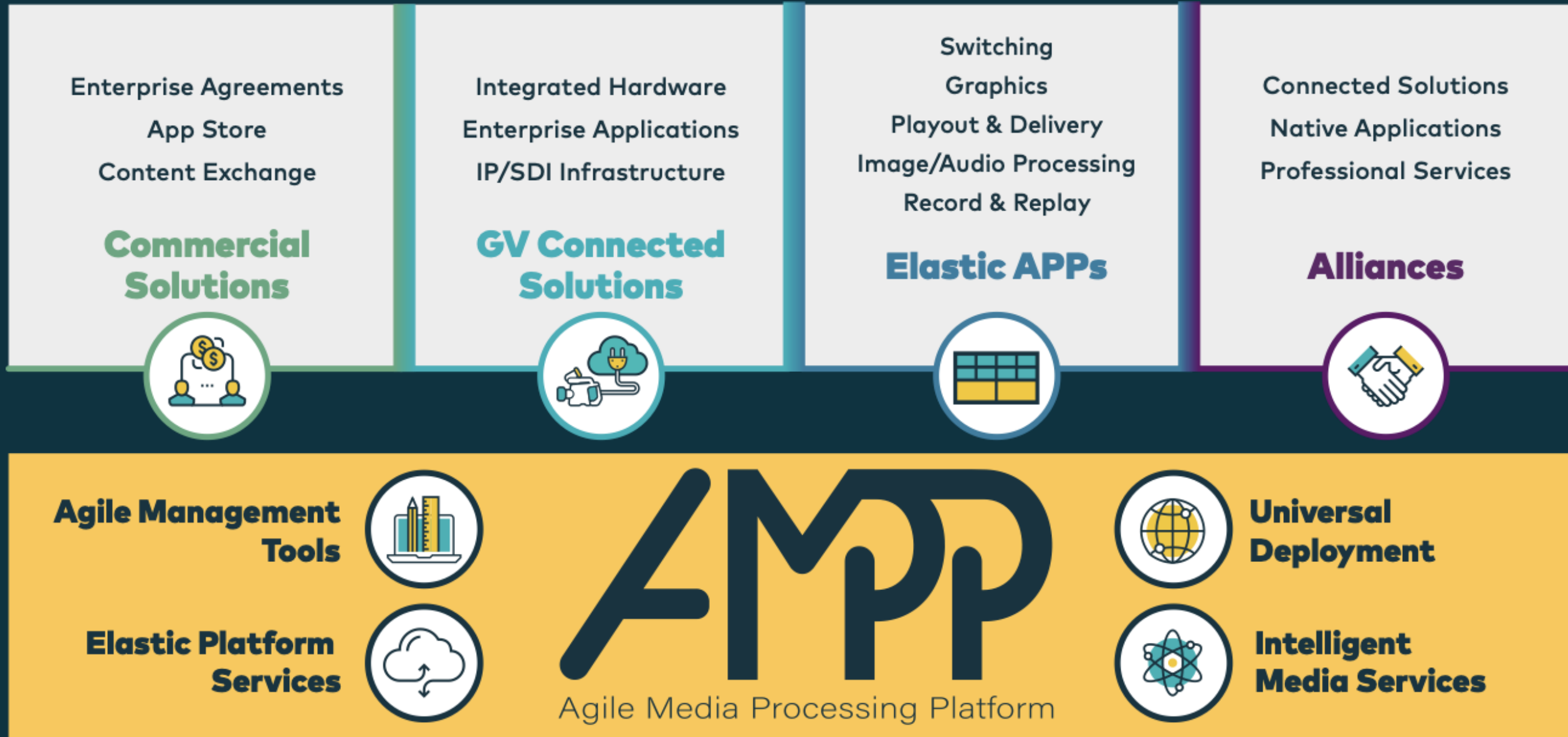


# IBC 2022

September 9-12

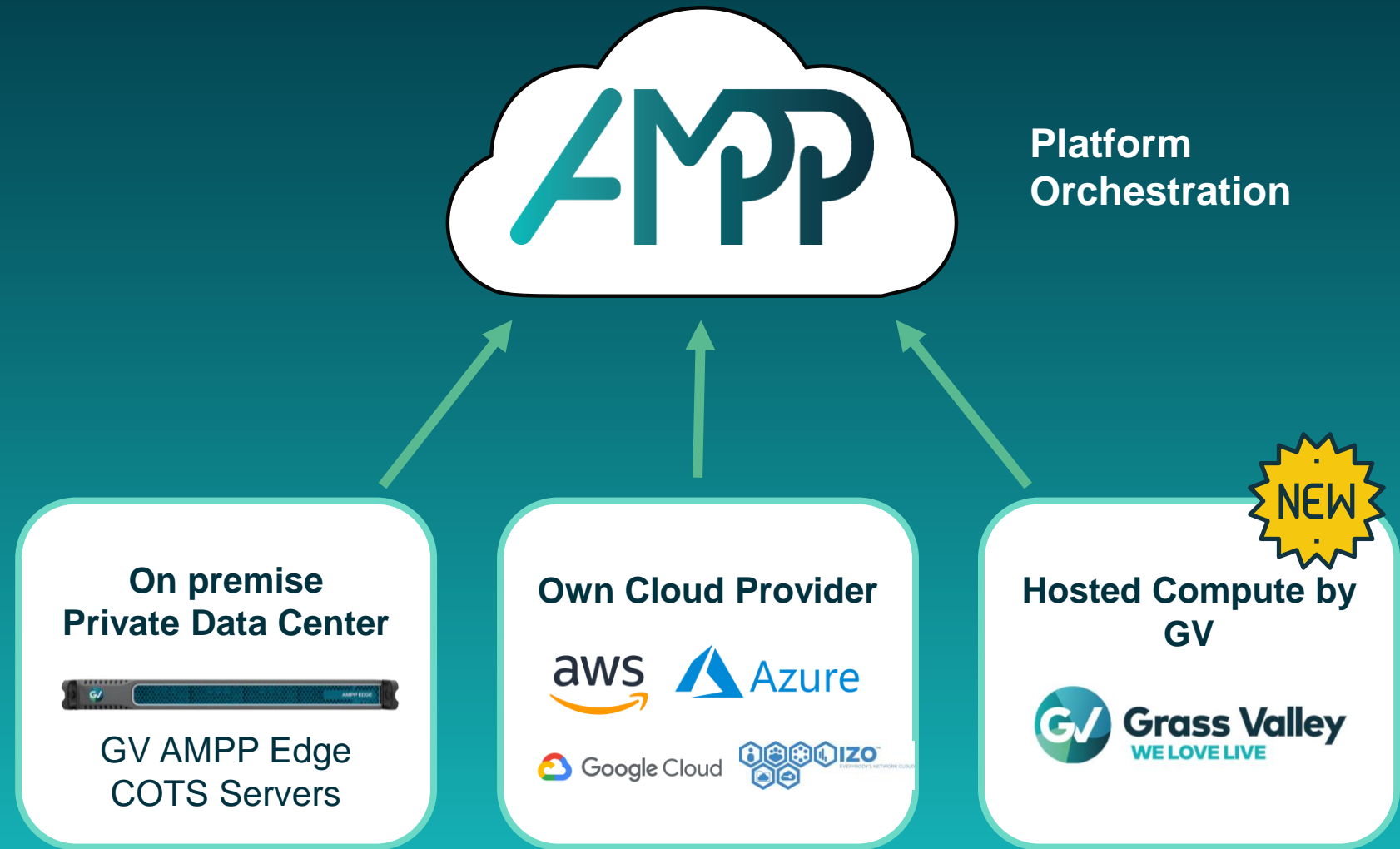






# AMPP HOSTING OPTIONS

- GV hosts the platform (aka control plane) in all cases through a SaaS model
- For the applications (aka data plane) processing several options are available
  - Bring your own
    - On-premise servers or private datacenter
    - Cloud provider (AWS, GCP, Azure, IZO)
  - GV provided
    - On-premise AMPP Edge servers **NEW**
    - GV Hosted Compute **NEW**



# AMPR Новые приложения





# MOSAIC

Background	Inputs				Key
Assign	Assign	Assign	Assign	Assign	Assign
AWS:Clip 1	BARS	AWS:IP 1	AWS:Clip 2	AWS:IP 2	RAM 1

# VIDEO SCOPE

# CHANGEOVER





# AUDIO MIX X ENHANCEMENTS

## Noise Reduction

- Uses AI to automatically remove common background noise like “hums”, “buzz” or “fan noise”
- Quickly fix background noise problems with no setup

## Noise Gate

- Reduces gain when input is under threshold level
- Enables auto-mixing when combined with new Rules Engine and AMPP Control



# ALCHEMIST X





# ALCHEMIST X PORTFOLIO



PRICE ↑

## Value Options

- Alchemist X Essential
  - Value FRC Conversion
- Alchemist X UDC
  - UDC & HDR Conversion
- Alchemist X HDR
  - HDR & Color space conversion



## Alchemist X Professional

- Mid tier FRC Conversion
- UHD/HD/SD and HD/SD only options
- Video and Audio Proc features



## Alchemist X Enterprise

- Highest Quality FRC Conversion
- UHD/HD/SD and HD/SD only options
- All utility and value add features



FUNCTIONALITY →

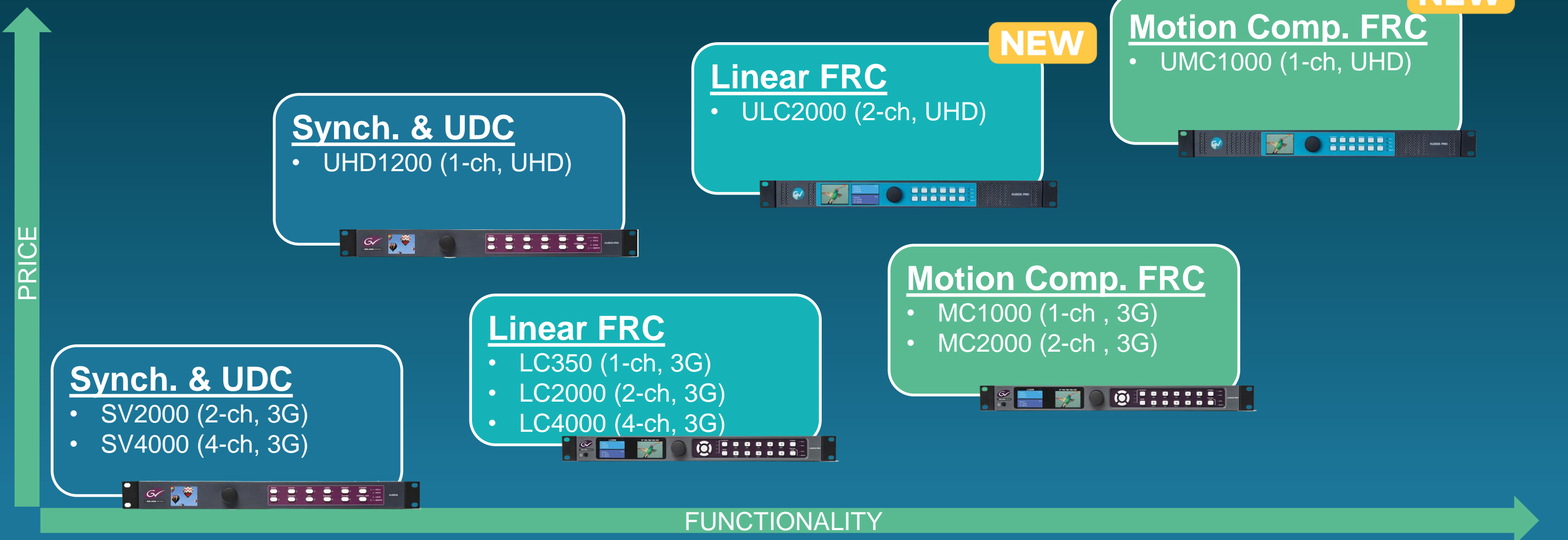


# KUDOS PRO





# KUDOS PRO PORTFOLIO

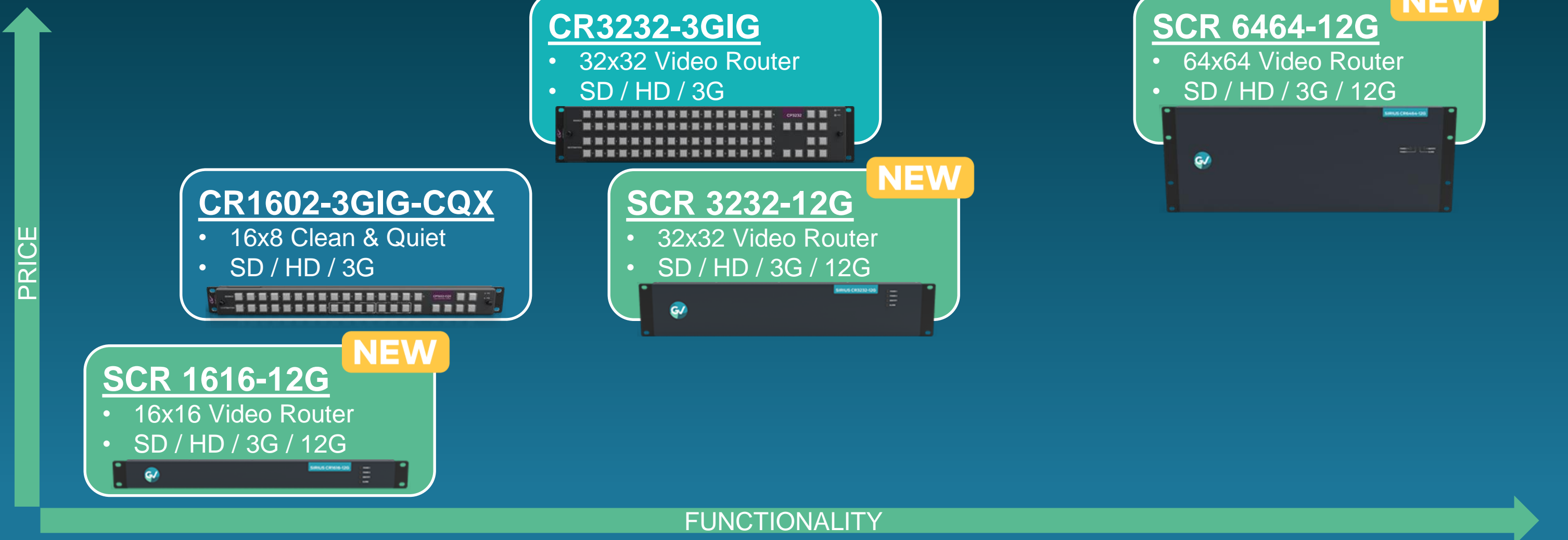


# SIRIUS





# COMPACT ROUTER PORTFOLIO



# KALEIDO IP





# KALEIDO-IP PORTFOLIO



## Kaleido-IP X130

- SD / HD / 3G / UHD
- Up to 96 HD ST2110-20
- Up to 48 3G ST2110-20
- Up to 8 UHD ST2110-20
- Up to 4 Heads



## Kaleido-IP X330

- SD / HD / 3G / UHD
- Up to 96 HD ST2110-20
- Up to 48 3G ST2110-20
- **Up to 16 UHD ST2110-20**
- Up to 4 Heads



## Kaleido-IP X240

**NEW**

- SD / HD / 3G / UHD
- Up to 96+ HD ST2110-20
- **Up to 56-64 3G ST2110-20**
- Up to 8+ UHD ST2110-20
- Up to 4 Heads





# KALEIDO-IP X240

- Technical refresh of Kaleido-IP
- New more powerful server, CPU's, GPU, and NICs in 1RU
- Increasing input capacity to 56-64 1080P inputs with full 2022-7 support
- 4x HDMI outputs
- 4x ST2110 single stream outputs (2x UHD)



# DENSITÉ MODULAR







# XIP-3901-ASI

- Very high density
  - 16 gateways / card
  - 192 gateways / 4 RU Densite 3+ frame
- Main and backup pairing, with automatic change-over switching
- SMPTE2022-1 FEC support and hitless ST2022-7 Class A redundancy
- ETSI TR 101 290 Pri 1 transport stream monitoring and reporting back to the orchestration system
- HTML 5 GUI & Rest API
- Complete integration with GV Orbit



***Convert legacy ASI devices to IP by taking CBR/VBR DVB-ASI (coax) to SMPTE2022-2/3 CBR/VBR TS over IP***



# UCP-3901-MD

- Up to 16 MADI signals (8 in & 8 out) over dual 10/25 GbE
- Optional MADI link redundancy
- Audio delay per IP output stream of up to 128 ms
- Uncompressed PCM audio transport using SMPTE ST 2110-30
- Audio tone generator for MADI channels
- Audio channel selection per IP stream from 1-64 channels
- Packet time selection of 125  $\mu$ s, 250  $\mu$ s, 500  $\mu$ s, 1 ms and 4 ms
- Source/Destination audio channel shuffling



*Convert legacy MADI audio to IP*





# CAMERAS





# CAMERA PORTFOLIO



PRICE ↑

FUNCTIONALITY →

**PTX-35x HD**



**LDX (C)92**

- Best in class HD
- 720P, 1080i, 1080P, HDR
- Up-converted UHD



**LDX (C)96**

- Sports HD
- HDR, up to 6x 1080P
- Up-converted UHD



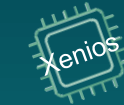
**LDX (C)98**

- News UHD, Sports HD
- HDR, up to 6x 1080P



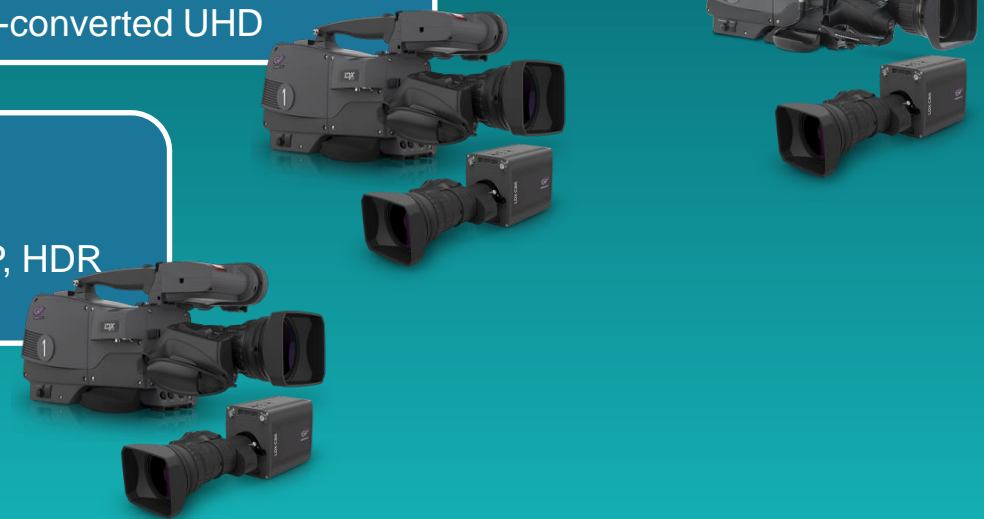
**LDX 135** **NEW**

- Studio/Sport single speed UHD & Native IP
- Global Shutter



**LDX 150**

- Sports UHD & Native IP
- Up to 3x UHD
- Global Shutter





# LDX 135

- **New single-speed version of the LDX 150**
- **UHD support as standard**
- **Other LDX 100 series options available**



### Improved handgrip

Closer positioning of the two user-programmable buttons to the zoom controller, making it easier to use the two controls simultaneously

### Improved shoulder pad

Wider support on the shoulder, thus less punctual pressure and more comfortable working with the camera even over a longer period of time

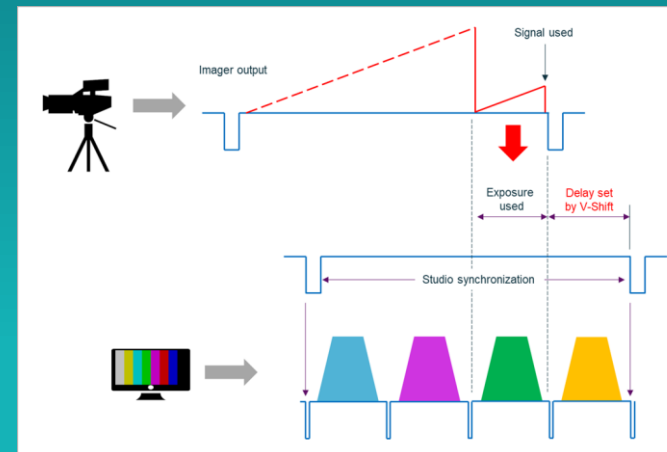


# LDX SOFTWARE

New functions and features provided by software updates

- V-Shift functionality
- Clean scan control with higher resolution
- LUT simulations
- Traditional SDR controls
- 3x 3G/HD plus 3G/HD live operation with NativeIP and XCU
- 3x 3G/HD plus 4K/UHD live operation with NativeIP
- Audio IP-streams shuffling
- Dissolve transition between scene files

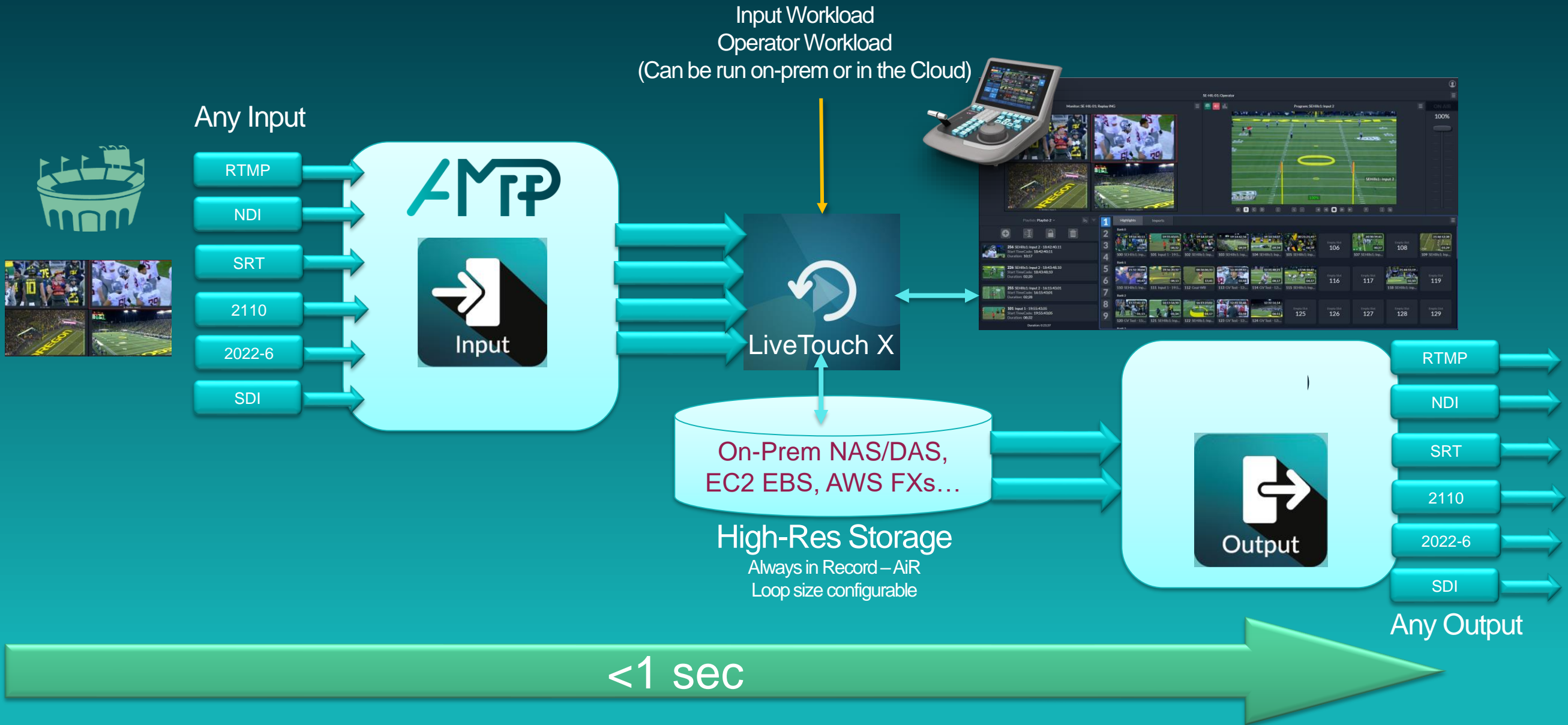
*...and many more*



# LIVE TOUCH X



# LiveTouch X - Workflow







# Kula IP with GV Kombine

- The ability to control multiple processing frames switching as a single meshed entity with a single surface control
- More I/O and M/Es for 4K (2SI) 1080p productions
- Benefits
  - GV Kombine's orchestration layer will enable multiple frames to be controlled by a single control surface and appear as a single entity
  - GV Kombine will utilize current GV Kula IP switcher hardware
  - The user experience and interaction with building... loading... punching shows has the feel of a standard production on Kula

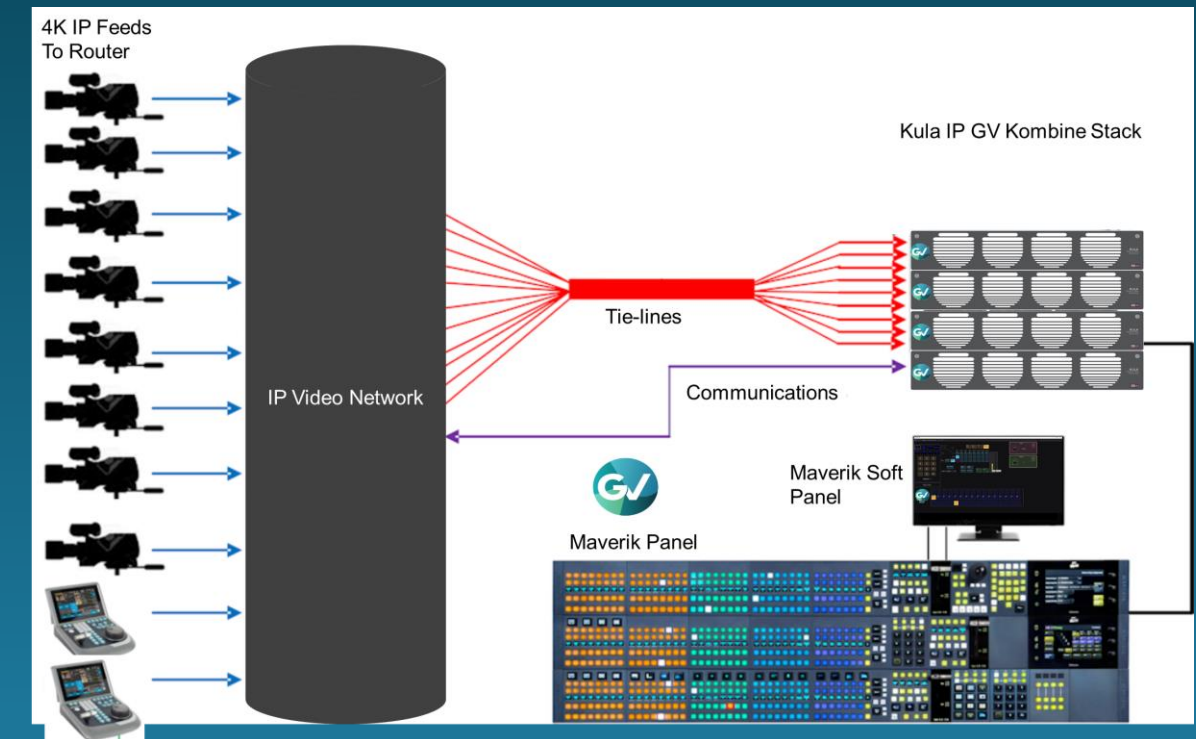
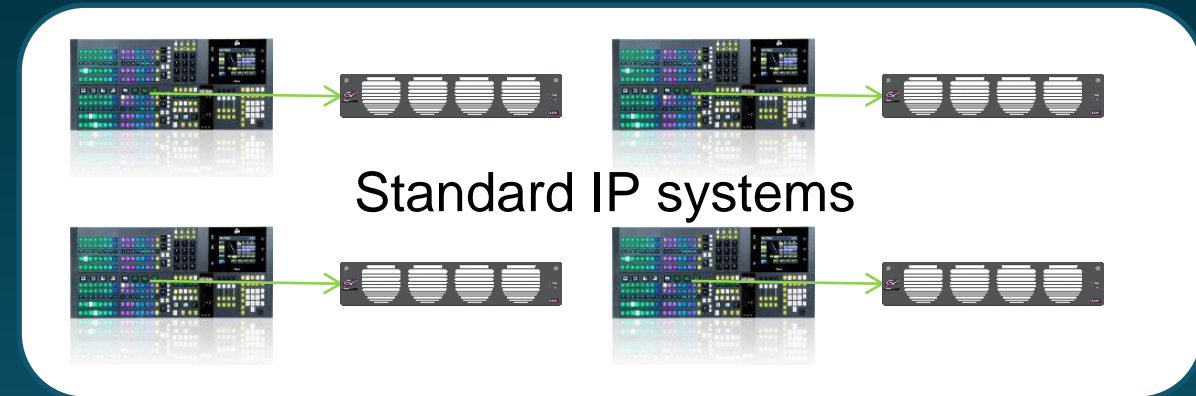




# Kula IP with GV Kombine

## Mesh-switching across frames with single surface control

- Enable multiple IP switcher frames to be controlled by a single control surface and appear as a single entity
- The Maverik Soft Panel (MSP) will be utilized to enable the Maverik panels to control multiple frames.
- Each frame will require a **GV-LIC-KOMBINE-FRM** license
- Stacking frames enables customers to expand their switcher resources to meet a particular event's demand; then return them to individual productions
- Stacking frames affords larger I/O and M/E counts for resource heavy UHD shows
- GV Kombine removes the individual frame hardware limitations allowing customers to exactly match their production requirements

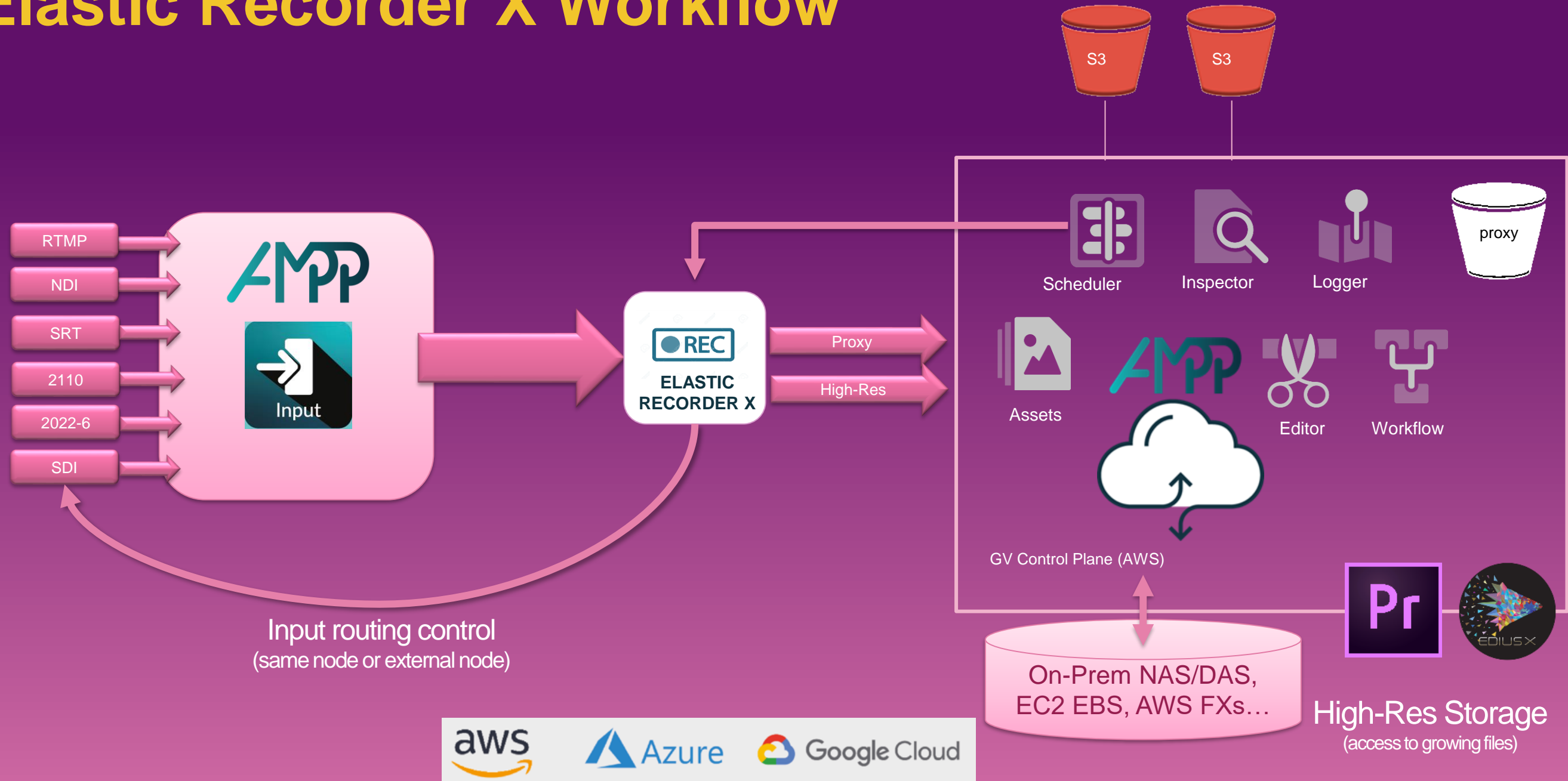


Maximum 16 M/Es in UHD or HD

# FRAMELIGHT X



# Elastic Recorder X Workflow



# GV PLAYOUT X



# FREE PLAYOUT

## Included

GV PLAYOUT X PLAYER INSTANCE  
ASSET REGISTRATION & PLAYBACK  
DUAL LIVE INPUTS  
UNCOMPRESSED OUTPUTS  
TRANSITIONS  
LOGOS  
AFD/ARC  
EMBEDDED AUDIO PASSTHROUGH  
VOICE OVERS  
ALC  
CC / SUBTITLES PASSTHROUGH

# FREE PLAYOUT

## Included

GV PLAYOUT X PLAYER INSTANCE  
ASSET REGISTRATION & PLAYBACK  
DUAL LIVE INPUTS  
UNCOMPRESSED OUTPUTS  
TRANSITIONS  
LOGOS  
AFD/ARC  
EMBEDDED AUDIO PASSTHROUGH  
VOICE OVERS  
ALC  
CC / SUBTITLES PASSTHROUGH



## Options

SYNCHRONIZED REDUNDANCY  
UHD SUPPORT  
HDR SUPPORT  
DOLBY PROCESSING  
ADVANCED AUDIO  
PROCESSING  
SIDECAR, LIVE & DVB SUBS  
SCTE SUPPORT  
AUDIO WATERMARKING

# FREE PLAYOUT

## Included

GV PLAYOUT X PLAYER INSTANCE  
ASSET REGISTRATION & PLAYBACK  
DUAL LIVE INPUTS  
UNCOMPRESSED OUTPUTS  
TRANSITIONS  
LOGOS  
AFD/ARC  
EMBEDDED AUDIO PASSTHROUGH  
VOICE OVERS  
ALC  
CC / SUBTITLES PASSTHROUGH



## Options

SYNCRONIZED REDUNDANCY  
UHD SUPPORT  
HDR SUPPORT  
DOLBY PROCESSING  
ADVANCED AUDIO  
PROCESSING  
SIDECAR, LIVE & DVB SUBS  
SCTE SUPPORT  
AUDIO WATERMARKING



## AMPP APPS

MONITORING  
COMPRESSED OUTPUTS  
ELASTIC RECORDER X  
EXTENDED FRAMELIGHT X  
WORKFLOWS & LICENCES



# FREE PLAYOUT

## Included

- GV PLAYOUT X PLAYER INSTANCE
- ASSET REGISTRATION & PLAYBACK
- DUAL LIVE INPUTS
- UNCOMPRESSED OUTPUTS
- TRANSITIONS
- LOGOS
- AFD/ARC
- EMBEDDED AUDIO PASSTHROUGH
- VOICE OVERS
- ALC
- CC / SUBTITLES PASSTHROUGH



## Options

- SYNCRONIZED REDUNDANCY
- UHD SUPPORT
- HDR SUPPORT
- DOLBY PROCESSING
- ADVANCED AUDIO PROCESSING
- SIDECAR, LIVE & DVB SUBS
- SCTE SUPPORT
- AUDIO WATERMARKING



## AMPP APPS

- MONITORING
- COMPRESSED OUTPUTS
- ELASTIC RECORDER X
- EXTENDED FRAMELIGHT X
- WORKFLOWS & LICENCES

**= TOTAL FLEXIBILITY**