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# 1. Introduction

With the latest Multicam 20.0 software, XT and XS servers continue to add new IP features, and offer a range of other workflow and usability enhancements.



**LIVEIP IMPROVEMENTS:** LiveIP offers the possibility to send a selection of the incoming audio streams to the monitoring output; New QSFP modules are validated to allow long distance connection between XHub-VIA and the IP fabric; SMPTE ST2110-31 flows (compressed audio) can now be sent and received; PTP Genlock and analog Time Code can now be used simultaneously.

**NEW PRORES CODEC 4K:** This third UHD Codec family is now included in multiple flavors.

**NEW RAID 10+2 CONFIGURATION:** For improved reliability.

**NEW I/O CONFIGURATIONS:** For XT-VIA and XT-GO in 1080i and 1080p, including the possibility of using different SLISM speeds simultaneously.

## 2. LiveIP Improvements

### 2.1 LiveIP Audio Input Monitoring

You have the option, using LiveIP, to echo the incoming audio streams to an outgoing monitoring flow. Note that the monitoring outputs are independent from the recorder and the possible shuffling that takes place after the reception of streams.

Audio Monitoring								
Label	Source Port	Destination Address	Destination Port	SFP	Audio type	Channel Grouping	# of Channels	Audio Track
MON IN1 Audio-1	8100	239.1.1.1	8100	6-D	ST 2110-30		2	1 to 2
MON IN1 Audio-2	8100	239.1.1.1	8100	6-D	ST 2110-30		2	3 to 4
MON IN1 Audio-3	8100	239.1.1.1	8100	6-D	ST 2110-30		2	5 to 6
MON IN1 Audio-4	8100	239.1.1.1	8100	6-D	ST 2110-30		2	7 to 8

## 2.2 Validation of a new QSFP Module for Xhub-VIA

The XHub-VIA can receive the QSFP-100G-CWDM4 module. It's a single mode fiber model with LC connector, that allows wiring of up to 2 kilometers.

## 2.3 ST 2110-31 Audio flows

Non-PCM audio (with compression) can be transported over IP. It's used mainly for Dolby-E, or for audio-related metadata such as Dolby-Atmos. It can be configured individually for each audio sender or receiver. When using this setting the channel grouping is fixed (up to 4 AES pairs; note that the packet time must be reduced, 500µs or less, to have more than 3 incoming/outgoing AES pairs).

Label	Source Address	Source Port	Destination Address	Destination Port	SFP	Audio type	Channel Grouping	# of Channels	Audio Track
IN1 Audio-1	192.168.0.1	8100	239.1.1.1	8100	6-C	ST 2110-31	AES3,AES3,AES3,AES3	8	1 to 8
IN1 Audio-2	192.168.0.1	8100	239.1.1.1	8100	6-C	ST 2110-30	e.g. 51,ST	8	9 to 16

## 2.4 Analog LTC with Genlock PTP

If, for some reason, the timecode can't be generated from the PTP (e.g., the OE metadata is not present in the PTP messages), it's possible to use the analog LTC input as a timecode source, while using the PTP as a genlock source. Note that, in this case, LTC and PTP have to be synchronized (e.g., by being generated by the same device)

# 3. New I/O Configurations

## 3.1 Multiple SLSM Speeds

It's now possible to have two different SLSM speeds running simultaneously in an XT-VIA configuration.

The higher speed camera must be set for the first inputs.

The range of potential configurations is listed below:

SLSM settings		
	SLSM#1	SLSM#2
Number of cameras:	2	2
SLSM speed:	4x	2x
On 3G-SDI:	No	No

### HD 1080i

1 SLSM 3X + 1 SLSM 2X + 2 IN + 4 OUT

### HD 1080p

- 1 SLSM 8X + 1 SLSM 6X + 2 OUT
- 1 SLSM 8X + 1 SLSM 4X + 2 OUT
- 1 SLSM 6X + 1 SLSM 4X + 2 IN + 2 OUT
- 1 SLSM 6X + 2 SLSM 3X + 2 OUT
- 2 SLSM 4X + 2 SLSM 2X + 2 OUT

## 3.2 New Configurations for XT-VIA

### HD 1080i

3 IN + 5 OUT  
4 SLSM 3X + 1 IN + 2 OUT  
2 SLSM 3X + 4 IN + 4 OUT

### HD 1080p

3 IN + 5 OUT  
4 SLSM 4X + 2 OUT  
4 SLSM 3X + 1 IN + 2 OUT  
2 SLSM 3X + 4 IN + 4 OUT



## 3.3 New Configurations for XT-GO

### HD 1080i

2 IN + 4 OUT

### HD 1080p

2 IN + 4 OUT

## 4. New ProRes 4K codec

For UHD productions, in addition to the XAVC and DNxHR codecs, XT-VIA now provides the ProRes 4K codecs in three flavors:

- LT 10b (684 Mbps@50, 821 Mbps@59.94)
- SQ 10b (983 Mbps@50, 1178 Mbps@59.94)
- HQ 10b (1475 Mbps@50, 1768 Mbps@59.94)

Note that (due to the high bitrate needed) the number of I/O channels could be reduced, depending on the flavor and the framerate. These codecs are not yet supported in version 4.5 of VIA Xsquare.

## 5. New RAID configuration

A new **RAID 10+2** configuration is available. This configuration contains 2 parity disks, for reinforced reliability. Note that the default setting remains the 10+1 configuration.

## 6. Compatibilities

Multicam 20.3 can only be installed on the XT-VIA, XS-VIA and XT-GO servers. XT-VIA and XS-VIA servers can be part of an XNet SDTI network with other servers (XT4K, XS4K, XT3, XS3 or XTNano) running Multicam 16.6.13 (or a higher 16.6 sub-version).

The XNet-VIA network can only contain XT-VIA or XS-VIA servers, running Multicam 20.1 or higher

## 7. Software Download and Manuals

Please refer to the [Download area of the EVS website](#) for manuals, release notes and software packages.

If you do not already have an EVS login, you will be invited to create a personal EVS account, to help ensure that you're kept up to date with only the most relevant information and updates. This will also allow you to access all the information you need, completely free of charge.



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