



TRAINING

OPERATORS PRONEWS
EVS PRODUCTION SERVERS SYSTEM & SOFTWARE
PACKAGE 15.2

JULY 2017



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1. INTRODUCTION

This newsletter details the latest features and functionality of Multicam version 15.2.

New Operational features

The latest update to Multicam introduces a variety of new operational features, aimed at providing operators with greater flexibility – particularly when operating in **Dual LSM Mode**. For example, it's now possible for operators in Dual LSM Mode to set up **asymmetric configurations** of cameras – giving them flexible access to exactly the combinations of channels they need to work with. Operators can also dynamically switch from one to two LSM remotes while working.

New Engineering features

On the engineering side, Multicam 15.2 enables 12+ channel support, including support for new codecs.

The native LoRes proxy is now also supported on the XT4K and XS4K servers with HD and 4K, and there is support for HDR across the range of current standards.

2. NEW OPERATIONAL FEATURES OF MULTICAM 15.2

2.1. TIMELINE AND SPLIT SCREEN MODE IN UHD-4K

Since Multicam 15.2 it is now possible to make horizontal and vertical split screens in UHD-4K resolutions. This allows the operator to use his LSM Remote in the same way as before in HD. The same for the Timeline function that can be used now with the UHD-4K resolution for advanced audio and video editing without constraints.

2.2. DUAL-LSM ASSYMETRIC CONFIGURATIONS

In previous versions of Multicam, the Dual LSM mode always divided the XT Server symmetrically in terms of channels. For certain configurations and use-cases this is not always practical. With the latest version, asymmetrical configurations are now supported in terms of inputs on the machine. See example here below.

There's a new parameter to define the number of cameras controlled by the first operator:

```
Base settings
Inputs / Outputs      8 / 4 (1 SLSM = 1 Input)
Base config           Multicam LSM
3D                    No
Dual LSM mode         Yes
Available Inputs Op1  7
```

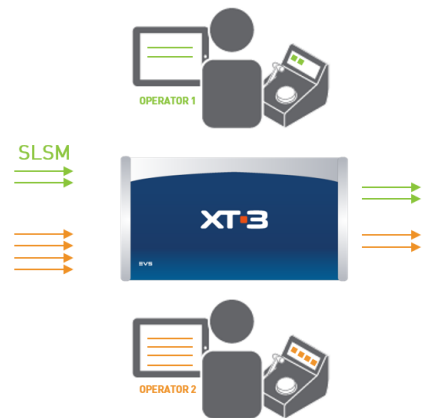
Example: 6 IN + 4 OUT configuration (1SLSM 3X + 5 IN + 4 OUT).

With the previous version of Multicam these channels were symmetrically assigned to the operators: 3 IN + 2 OUT for each operator.

With the new Multicam 15.2, we can for instance set the parameter "Available Inputs Op1" to 2.

This will then result in the following distribution of the channels:

- Op1: 2 IN + 2 OUT (1 SLSM + 1 regular camera)
- Op2: 4 IN + 2 OUT



Dual LSM is now available on XT3 and XT4K running HD Configurations (including Replay-Only configs).

2.3. DYNAMIC SWITCHING OF REMOTE

Both operators can now switch dynamically from one to two LSM Remotes while in Dual-LSM mode.

The operators can also define who gets access to the Timeline engine and this can be changed during operations.

```
Timeline
Mono per group      2
TL Operator         1
```



3. NEW ENGINEERING FEATURES IN MULTICAM 15.2

3.1. HARDWARE COMPATIBILITY

Since Multicam 15.2 the hardware edition is shown in the System information when the server is running or in the top info bar before the config line is running, next to the serial number.



HW versions 3.30 till 5.10 are compatible with Multicam 15.2.
Here's the list of compatible boards:

MTPC	HS-873 (1GB RAM)
CTRL	H3X & H3XP
Video	V3X (V3X base only) V4X
Audio	CODA75 & A3X
GBE	TGE
Multiviewer	Quad-MTPC & MV4

The new version also enables the 12+ channel support including the support of some new codecs:

- More codecs in HD & Full HD: XAVC or AVC-Intra or ProRes on XT4K/XS4K
- Channel Max configurations on XT4K/XS4K (Full list of compatible configurations are available [here](#)).

The native LoRes proxy is now supported on the XT4K/XS4K servers in HD and 4K.



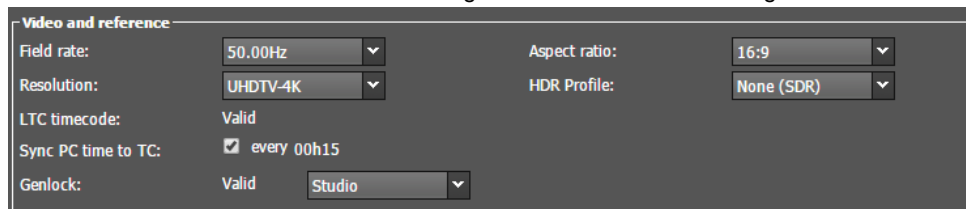
3.2. PLAYOUT IMPROVEMENTS

- Improved protection of the local playout under heavy network load
- Improved XNet SDTI performances (between H3XP-equipped servers)
- Ethernet – configurable maximum number of FTP connections (6 by default)

3.3. HDR SUPPORT

HDR is a digital technique of compositing and tone-mapping of images that aims at extending the dynamic range of an image beyond the native capability of the capturing device, in order to increase the luminosity contrasts in a picture.

In the Video and Reference section of the Multicam configuration screen a new setting has been added: HDR Profile.



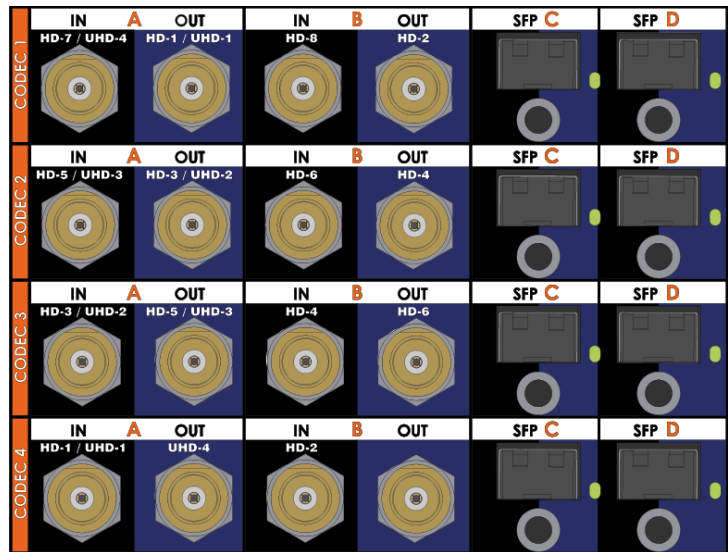
These are the possible values for the setting:

- None (SDR = Standard Dynamic Range)
- HLG (= Hybrid Log-Gamma, developed by BBC and NHK)
- PQ (= Perceptual Quantizer, developed by Dolby Lab. Inc.)
- S-Log3 (developed by Sony)
- V-Log (developed by Panasonic)

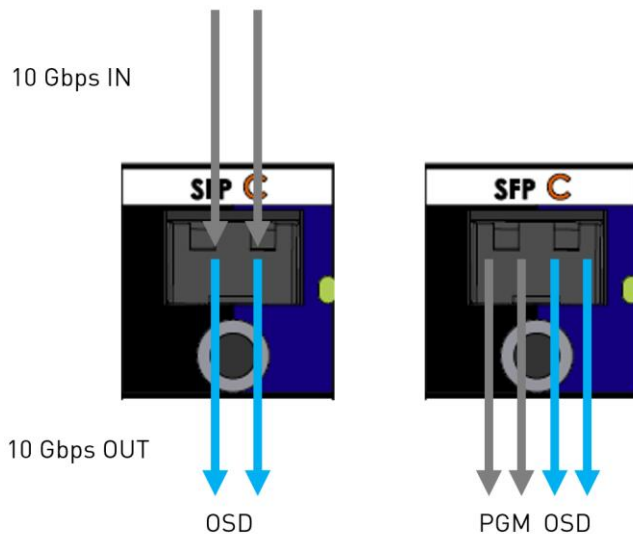
3.4. IP BACKPANEL

The XT4K server can be ordered with an IP connectivity. In case the SFP+ connections are used for this, the BNC connectors are not operational any more, and vice versa. See the XT4K Configuration manual for more information.

SFP+ connection for IP streams are available with 720p, 1080i or 1080p resolutions. The ST2022-6 streams includes the OSD feeds.



NATIVE IP OPTION (SHIPPING 2017 Q2) XT 4K XS 4K



EFFICIENT PORT UTILIZATION

- 10Gbps IN / 10Gbps OUT
- Bi-directional flows
- IN / OUT / OSD on same wire

FLEXIBLE

- ST 2022-6 TODAY
- ST 2110 Support as software update
- Support HD or 1080p Workflows

4. SOFTWARE DOWNLOADS AND MANUALS

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

If you don't already have an EVS login, you'll 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 download all the information you need, completely free of charge.