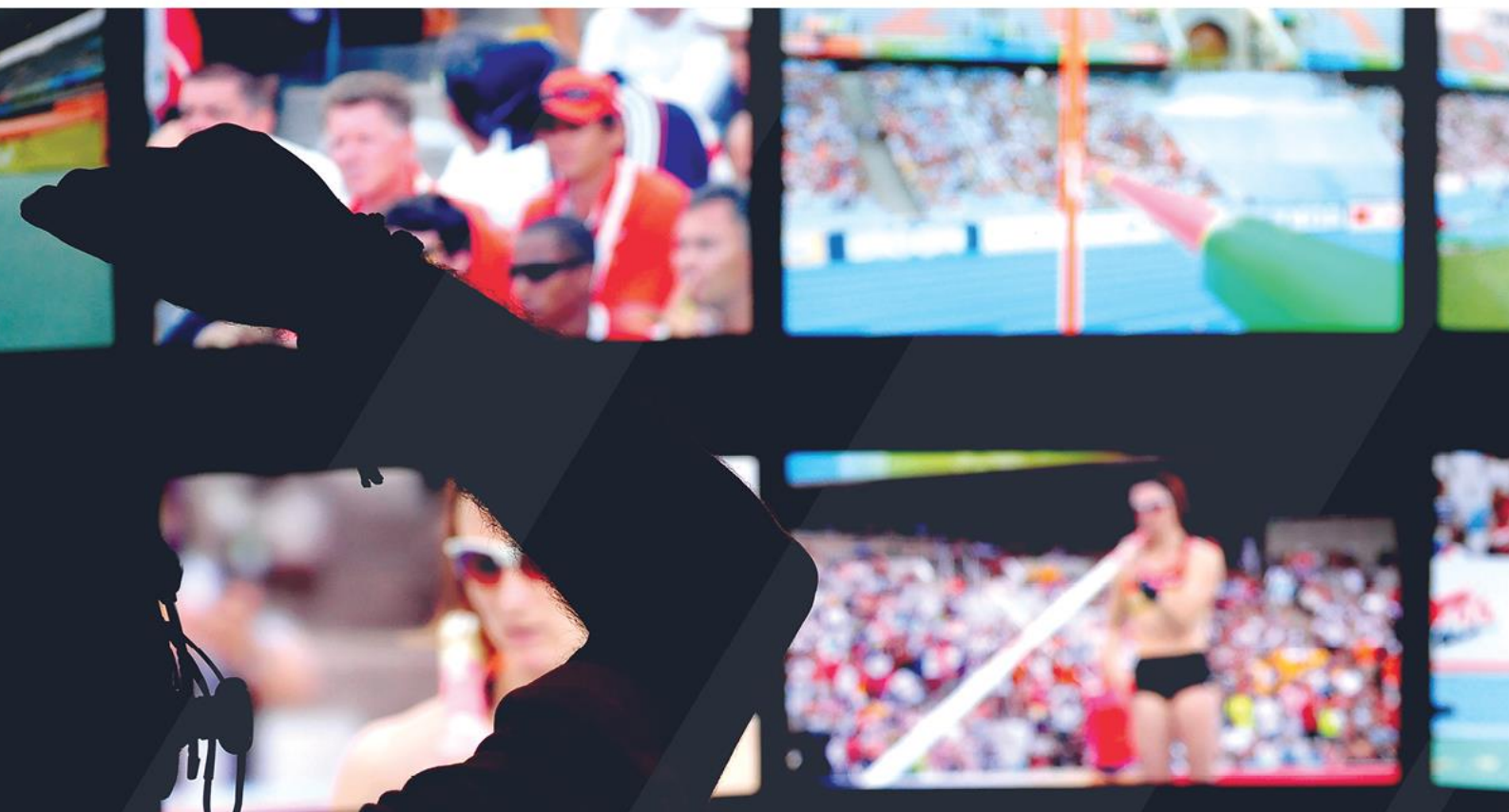




Operators' ProNews

EVS Production Servers

Package 20.2 | March 2022



Corporate

+32 4 361 7000

North & Latin America

+1 973 575 7811

Asia & Pacific

+852 2914 2501

Other regional offices

[evs.com/contact/offices](https://www.evs.com/contact/offices)

→ [evs.com](https://www.evs.com)

Contents

1	INTRODUCTION.....	3
2	LIVEIP IMPROVEMENTS.....	3
2.1	MBB for Audio	3
2.2	MV4X Input Failover	4
2.3	PTP Offset	4
2.4	IP Streams Activation	4
2.5	Bandwidth Monitoring.....	4
3	NEW I/O CONFIGURATIONS	5
3.1	New Configurations for XT-VIA.....	5
3.2	New Configurations for XT-GO	5
4	VARIOUS IMPROVEMENTS.....	5
5	COMPATIBILITIES	5
5.1	Compatibilities with EVS Software	5
5.2	XT-GO Compatible with LSM-VIA.....	6
6	XHUB-VIA	6
6.1	Link Aggregation.....	6
6.2	Mixed Network Configuration	6
7	SOFTWARE DOWNLOAD AND MANUALS	7

1. Introduction

With the Multicam 20.2 software, XT and XS servers continue to incorporate new IP features, and further integrate with the LSM-VIA remote.



XT-GO AND LSM-VIA COMPATIBILITY. XT-GO users are now able to use these servers with the new LSM-VIA remote.

MBB FOR AUDIO. The Make Before Break function is now applied to Audio, allowing a smooth transition between streams.

MV4X INPUT FAILOVER for a redundant Multiviewer Input.

PTP OFFSET for use in a production with multiple time zones.

IP STREAMS ACTIVATION. Senders can be activated and disabled, avoiding unwanted streams.

BANDWIDTH MONITORING, using XNet Monitor.

NEW I/O CONFIGURATIONS for XT-VIA and XT-GO in HD.

XHUB-VIA IMPROVEMENTS. We can now use Link Aggregation between multiple instances, and split the XHub-VIA for multiple usages, using the VLANs.

Note: Multicam version 20.2 is only compatible with XT-VIA, XS-VIA, and XT-GO, on hardware versions 6.00 to 6.30. The XT-4K, XS-4K, XT-3 and XS-3 remain compatible with newer servers in an XNet network using the Multicam version 16.6.13. Nevertheless, all improvements related here below only relate to servers running the Multicam version 20.2.

2. LiveIP Improvements

2.1 MBB for Audio

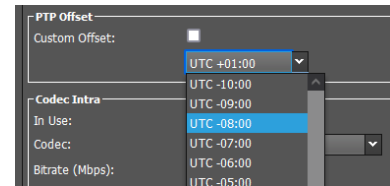
The MBB (Make Before Break) feature was introduced for video in version 20.0. It prevents the brief appearance of a grey screen when transitioning to a new incoming stream. Now it applies to audio and avoids a period of silence and the "tick" caused by an abrupt transition between two audio signals. It should be noted that this function is generally activated automatically, as soon as the bandwidth allows it for the video, and in all cases for audio. No user intervention is required.

2.2 MV4X Input Failover

This function is like the ST2022-7, with some limitations, and applies to the Multiviewer inputs in IP. It provides redundancy in the event of a link failure or packet loss. Compared to the ST2022-7, the failover is not seamless. There is only one stream present at any one time

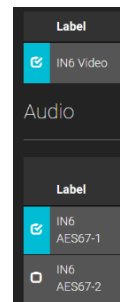
2.3 PTP Offset

Since Multicam 16.1, PTP can be used as a source for Time Code. However, it is necessary that "OE" (Organization Extension) metadata is present in the PTP messages. In addition, in this new version, it is possible to introduce a PTP offset that corresponds to the local time zone, while being synchronized to a single PTP source for different time zones.

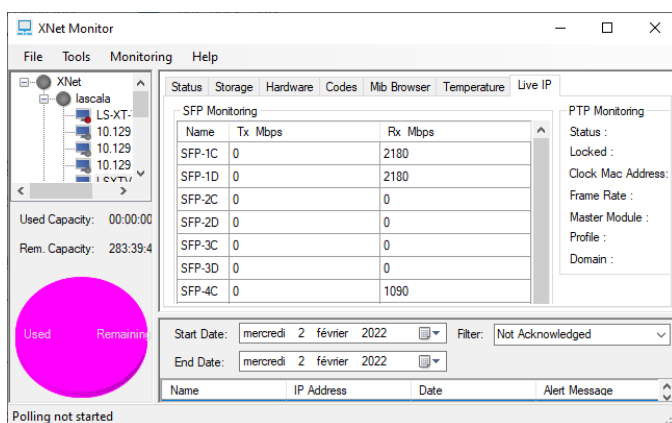


2.4 IP Streams Activation

Unlike previous versions, this new version allows you to activate / deactivate all of the senders by means of a checkbox. All feeds are disabled by default in the new configurations. This feature avoids traffic problems caused by streams temporarily using the same default multicast addresses (239.1.1.1)



2.5 Bandwidth Monitoring



The monitoring of incoming and outgoing bandwidth can be displayed, for each SFP+ interface, by the XNet Monitor 1.6.6 software. The information is transmitted via the SNMP protocol.

3. New I/O Configurations

3.1 New Configurations for XT-VIA

HD 1080i

2 SLSM 8X + 1 OUT
 2 SLSM 8X + 2 IN + 1 OUT
 2 SLSM 8X + 2 OUT
 2 SLSM 8X + 1 IN + 2 OUT

HD 1080p

3 SLSM 2x + 2 IN + 4 OUT
 2 SLSM 3x + 4 IN + 4 OUT
 (Dual-LSM)



3.2 New Configurations for XT-GO

HD 1080i

8 IN
 2 SLSM 3X + 2 OUT
 1 SLSM 2X + 4 IN + 2 OUT
 2 SLSM 2X (on 3G) + 4 IN + 2 OUT

HD 1080p

8 IN
 1 SLSM 2x + 4 IN + 2 OUT

4. Various Improvements

- SFP bandwidth warning stored in log files
- Multiviewer input link status displayed on the LiveIP user interface
- NMOS Scheduled activation: the stream creation by the NMOS protocol can be scheduled, using an absolute time, or a relative delay.
- The proxy codec (H.264) bitrate is limited to 2 Mbps (allowed by an increased quality at this bitrate). The new default value is 1.5 Mbps
- Option to give a name to Multiviewer external inputs
- Debug information about the NMOS RDI, accessible by a web browser

5. Compatibilities

5.1 Compatibilities with EVS software

Multicam 20.2 is compatible with XHub-VIA SW 1.2, IPDirector v7.92 or v8.00, XFile3 v6.2, VIA Xsquare 4.4, LinX 3.0 or higher (XNet-VIA with up to 34 servers)

5.2 XT-GO Compatible with LSM-VIA

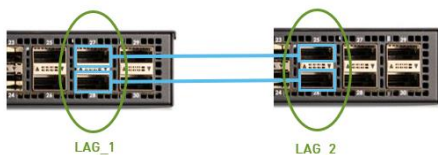
The XT-GO is now compatible with LSM-VIA (license code 100). All the features of this new remote, which previously required an XT-VIA, are now available to users of XT-GO servers.



6. XHub-VIA

6.1 Link Aggregation

The interconnection of XHUBs can use link aggregation (LACP). Therefore, the bandwidth between the switches can be increased by doubling (or multiplying by up to 6) the connections. Also, if one of the two links breaks, the second one continues to work, after an interruption of about 3s. Any pairs (or group) of QSFP ports can be used for a single LACP link, and the configuration has to be changed using the CLI.



6.2 Mixed Network Configuration

By using VLAN configurations, the XHub-VIA can be used for several functions simultaneously:

- An XNet-VIA network and an Ethernet switch
- Several separate XNet networks.

This can also be configured via the CLI.

7. Software Download 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 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 download all the information you need, completely free of charge.



→ [evs.com](https://www.evs.com)

