



TRAINING

OPERATORS PRONEWS
EVS PRODUCTION SERVERS
PACKAGE 16.6 – 20.1

JUNE 2021

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1. INTRODUCTION

This newsletter details the latest features and functionality of Multicam versions 20.1 and 16.6.

- Multicam version 20.1 is only compatible with XT-VIA, XS-VIA and XT-GO
- Multicam version 16.6 is compatible with the latest servers, but also with XT4K, XS4K, XT-3, XS-3 and XTnano (HW version 4.21+ for the three later). This version does not support LSM-VIA. It offers the same features as version 16.5.
- There is no cross-compatibility between Multicam versions, except between 16.5 and 20.0, and between 16.6 and 20.1

In these versions, the XT servers have improved their LiveIP functionalities, the XNet-VIA capabilities and offer new I/O configurations.

XHub-VIA v2 (SW 1.1)

The XHub-VIA v2, introduced in the previous version as an IP aggregator, can now be used as a hub for the XNet-VIA network, replacing the previous hardware.

LiveIP improvements

The LiveIP interfaces allows control of multiple parameters regarding IP flows. Other notable enhancements include: DHCP-capable interfaces, Unicast support, PTP monitoring, new NMOS process, etc.

2. XNET-VIA & XHUB-VIA V2



XHub-VIA v.2 replaces the XHub-VIA v.1, as a hub for the XNet-VIA network.



All the 24 SFP+ are available for connecting XT servers, and all the 6 QSFP28 ports are available for interconnection of multiple XHub-VIA.

Multiple units can be combined to allow multisite production, or to connect more than 24 servers on the same site. The interconnection of multiple XHub-VIA uses the QSFP28 ports (100 G), limiting the number of servers at each end to 10.

For security reasons, the interconnection of units can be duplicated, using the Protection Switching (PRS) feature. This hardware-based process ensures fast protection in the event of packets being lost on the primary connection: the secondary flow automatically replaces missing packets.

The switch can be managed remotely through a Command Line Interface, using a SSH console.

Using the XNet-VIA enables you to increase the maximal number of servers in the network to 34 (instead of 29) and increase the number of clips to 64000 (instead of 32000). Note that, when using the XNet SDTI, the network remains limited to 29 servers and 32000 clips.

3. COMPATIBILITY

Muticam 20.1 and 16.6 are compatible with:

- LSM-VIA 1.0 – 1.3 (Multicam 20.1 only)
- IPD-VIA 1.10 – 1.13
- IPDirector 7.92
- Xsquare 4.3
- Xfile3 6.1

Please refer to the Multicam 20.1 Release Notes for a complete compatibility chart.

4. NEW I/O CONFIGURATIONS

4.1. For XT-VIA

HD 1080i

1 SLISM 2X + 8 IN + 2 OUT
2 SLISM 2X + 6 IN + 2 OUT
2 SLISM 4x (3G) + 4 IN + 4 OUT



HD 1080p

1 SLISM 2x + 8 IN + 2 OUT
2 SLISM 2x + 6 IN + 2 OUT
1 SLISM 2x + 6 IN + 4 OUT



UHD-4K (PGM) / 1080p (REC)

2 SLISM 4x + 2 IN + 2 OUT



4.2. For XT-GO

HD 1080i

4 IN + 4 OUT

5 IN + 1 OUT

2 SLISM 2x + 2 IN + 2 OUT



HD 1080p

4 IN + 4 OUT

5 IN + 1 OUT

2 SLISM 2x + 2 IN + 2 OUT



5. NEW LIVEIP PARAMETERS

These parameters are now displayed and editable in the upper zone of the LiveIP interface:

- Activation of NMOS and Ember+ services
- Packet time (duration of audio per channel in an IP packet) of audio flows
- Payload Type (a value in the RTP header that refers to a dynamic mapping of flow description in the SDP file)
- PTP profile

| | | | | | |
|---|---------------------------|---|----------------------------|------------------------|-------------------------|
| Field rate: 59.94 Hz | Resolution: 1080i | Channels: 4 Rec / 2 Play | # of Audios: 8 | Protocol: ST 2110 | 2022-7: Disabled |
| NMOS services: Enabled | Ember+ services: Enabled | AES67 Packet Time: 1000 | Payload ST 2110-20: 96 | Payload ST 2110-30: 97 | Payload ST 2110-40: 100 |
| Status: OK | Clock: 0x15665bb7097aec1a | GrandMaster Clock ID: 0x080011ffe21e542 | Profile: INTEROP_AES_SMPTE | Domain: 127 | |

6. OTHER LIVEIP IMPROVEMENTS

- **DHCP.** The IP configuration of the SFP interfaces can now be automated by an external DHCP server. In the event of a missing DHCP server being detected (or non-connected interfaces), a warning message appears.
- **Unicast Support.** The IP flows can use unicast transmission.
- **Any-source Multicast.** The incoming IP flows can be filtered on their source IP address, or not. The SDP file is generated consequently.
- **Input Status indicator for ancillary streams.** A red/green indicator indicates the correct reception of ancillary data streams.
- **PTP monitoring.** The PTP parameters can now be monitored through SNMP. The XNet Monitor has a new PTP tab displaying information like PTP status, ID, Profile, Domain, etc.
- **Separate NMOS Process.** For improved stability, the NMOS process is now separated from the Multicam software. Consequently, it can be activated or not.



7. 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 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.