



TRAINING

**OPERATORS PRONEWS**  
EVS PRODUCTION SERVERS & INFRASTRUCTURE  
PACKAGE 16

JULY 2018



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## 1. INTRODUCTION

This newsletter details the latest features and functionality of Multicam version 16 & C-Next.

Multicam 16 focusses mainly on support for the new XT-Via server that was introduced during the NAB Show, in Las Vegas, in April of this year.

### IP Support

As the broadcast industry moves from traditional SDI transport to IP, the XT-Via server can be ordered in an IP version. Depending upon where you are working you might come across different server backpanels. Both will be described in this document, as well as information on cabling an SDI machine.

### 4K/UHD Support

The XT-Via is able to handle 6 channels of 4K/UHD, similar to the XT4K and XS4K servers. They all support 4K HDR. Codecs in 4K/UHD that are supported at this stage are: XAVC Class 300 & 480.

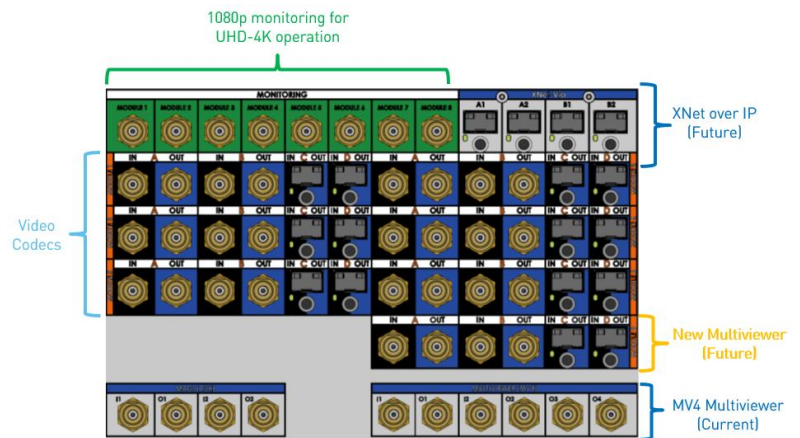
### C-Next

A brief introduction to the C-Next solution can be found at the end of this newsletter. C-Next helps productions to coordinate transfers of media files between live event sites and studios.

## 2. XT-VIA

### 2.1. IP CONNECTIONS

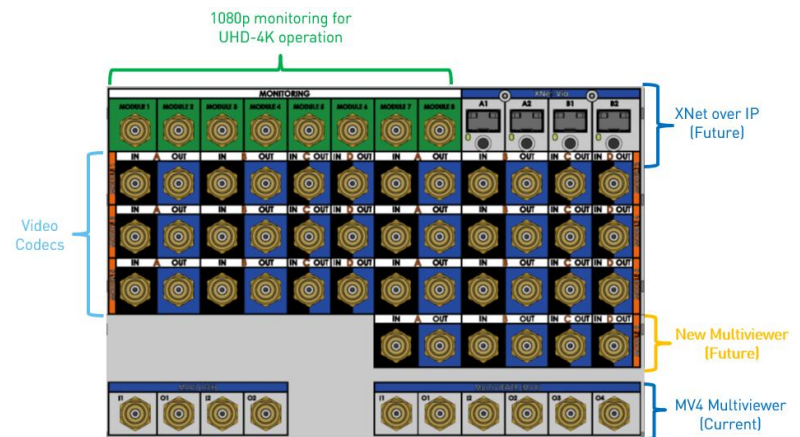
The back panels of an XT-Via server can be ordered with IP connectivity. Those connectors are 10Gb SFP and can transport multiple HD signals or 4K signals over multiple connectors. Compared to the XT4K, which also has IP Connectivity, there has been an increase in the number of codec boards, to increase capacity.



### 2.2. SDI BACKPANEL

The XT-Via can also be ordered with SDI Connectors. As you can see the positions that were SFP positions in the IP configurations now have SDI connectors.

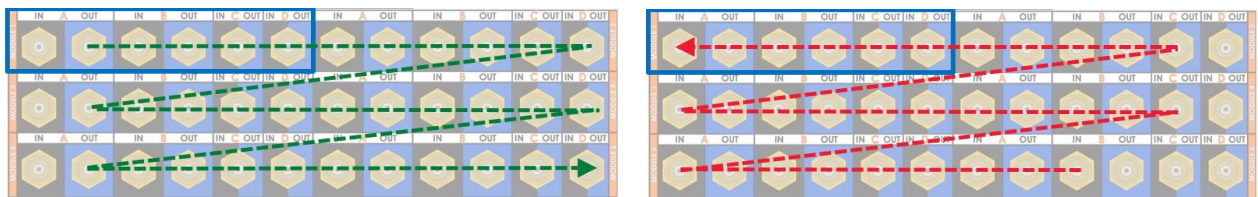
Other areas are very similar between the 2 different backpanels.



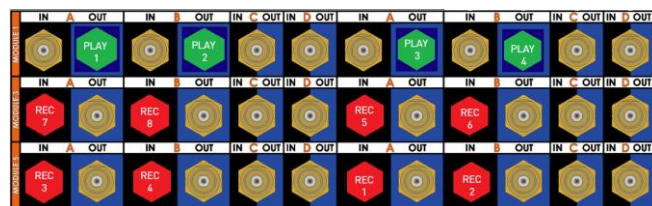
### 2.3. CABLING PRINCIPLE

The following general principles apply to all configurations of the XT-VIA server:

- > The connectors (6) within a codec module are only able to work in play **or** record mode
- > The play channels need to be connected before connecting the record channels, starting from codec 1
- > Once that is done, start from codec 6 with the inputs until you reach a codec that contains play channels



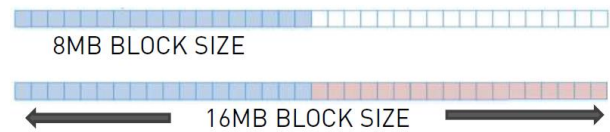
Here an example of an 8IN – 4OUT configuration





## 2.4. INTERNAL STORAGE

In Multicam 16, the block size on the hard drives has been changed from 8MB to 16MB. This means that a mandatory "clear video disk" operation needs to be performed on every server that is upgraded.



This process will automatically be carried out when you upgrade to Multicam 16.

Downgrading to another Multicam version also requires a "clear video disk" operation be performed.

The hard drives can go up to 1.8TB per drive and the XT-Via can now also support a new RAID config (10+1) when using 12 hard drives. This doubles the bandwidth of the server compared to an XT4K/XS4K.

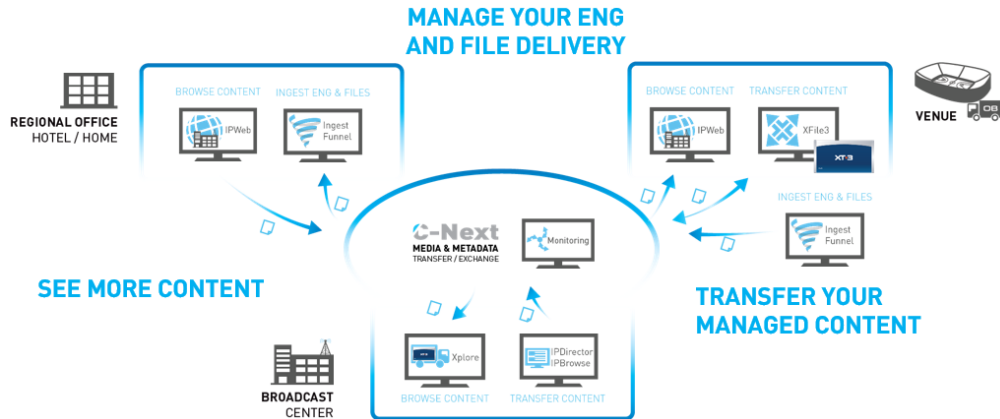
In this case there is always a spare drive available in the RAID configuration.



### 3. C-NEXT

For broadcast networks who need to coordinate transfer of media files between LIVE events and the studios more quickly & easily, C-Next is a platform that provides monitoring and transfers from/to production trucks with EVS servers.

Unlike stand-alone file transfers through accelerators, C-Next provides end-to-end visibility of transfers with integrated file accelerator for Aspera, Signiant, Amazon S3 and FileCatalyst



### 3.1. MONITORING

As the C-Next is managing the File transfer service & Media location, all this information is uploaded into the C-Next Cloud. The C-Next cloud manages information on the Connected Agents/Venues, User Management and Configuration.

It also provides Centralized Multi-site Monitoring of all the jobs.

Production or engineering staff can access this site through a regular web browser, looking at the Jobs and Workflows that are in place. Based on the login and access rights you have, you can monitor everything or just specific venues/workflows.

The screenshot shows the C-Next Monitoring interface. At the top, it displays '1191 Tasks Available'. Below is a table with columns: ID, Progress, Status, Creation Date, Source File Name, Type, Destination, and Venue Location. The table lists various tasks, including restores and transfers of .mxf files. Below the table, there are two sections: 'Task Details' and 'Media Details'.

ID	Progress	Status	Creation Date	Source File Name	Type	Destination	Venue Location
b63c88eb-9f33-44b4-90c9-f7c89b5ad6b3	100%	Completed	19 hours ago	EVS-139A.mxf	Restore	10.129.156.4 - 10.129.157.4, R/R/R 821K	Liege
x2555577-8a44-4737-8b43-15a4fbcb...	100%	Completed	19 hours ago	EVS-139A.mxf	Transfer	0:1C1qpsTemp Restore/0766875a-4206-5a4f...	Liege
3523413c-609f-4ab2-4b09-b1e1b57...	100%	Completed	19 hours ago	EVS-139D.mxf	Transfer	0:1C1qpsTemp Restore/0766875a-4206-5a4f...	Liege
c15ee46e-1b0c-4c25-8278-09f1527d...	100%	In Progress	19 hours ago	EVS-139D.mxf	Restore	10.129.156.4 - 10.129.157.4, R/R/R 821J	Liege
8b65466-7887-439d-5ab0-6094628...	100%	Completed	19 hours ago	EVS-EVS-1218-130B.mxf	Restore	10.129.156.4 - 10.129.157.4, R/R/R 821J	Liege
1a99989a-e4d9-40df-9b18-36acfb89...	100%	Completed	19 hours ago	EVS-EVS-1218-130B.mxf	Transfer	0:1C1qpsTemp Restore/0766875a-4206-5a4f...	Liege
ca15529b-20f8-435a-bea8-f4604961...	100%	Completed	19 hours ago	EVS-EVS-117C-130A.mxf	Transfer	0:1C1qpsTemp Restore/0766875a-4206-5a4f...	Liege
512ac985-16ab-497c-880a-6d051564...	100%	In Progress	19 hours ago	EVS-EVS-117C-130A.mxf	Restore	10.129.156.4 - 10.129.157.4, R/R/R 821H	Liege
2262ad00-4b13-4a4f-8404-cae6930...	100%	Completed	19 hours ago	EVS-EVS-118A (J)-130D.mxf	Restore	10.129.156.4 - 10.129.157.4, R/R/R 821D	Liege
c0ff0293-9a4-4b02-8746-9751cc09...	100%	Completed	19 hours ago	EVS-EVS-118A (J)-130D.mxf	Transfer	0:1C1qpsTemp Restore/0766875a-4206-5a4f...	Liege
2b775156-9d05-4e64-820a-6ab70aa...	100%	Completed	19 hours ago	EVS-139F.mxf	Restore	10.129.156.4 - 10.129.157.4, R/R/R 821F	Liege
411d913a-c785-406d-a095-8b4c8d0...	100%	Completed	19 hours ago	EVS-139F.mxf	Transfer	0:1C1qpsTemp Restore/0766875a-4206-5a4f...	Liege

**Task Details**

- ID: b63c88eb-9f33-44b4-90c9-f7c89b5ad6b3
- Creation Date: 23/05/2018 13:38:23
- Type: Restore
- Workflow: XFA22949D-AutoRestore
- Message: 100%
- Progress: 100%

**Media Details**

- Source Type: File
- Source Path: 0:\C1qpsTemp Restore\0766875a-4206-5a4f-9a4f-5a4c2bc0d807
- Source File Name: EVS-139A.mxf
- Destination: 10.129.156.4 - 10.129.157.4, R/R/R 821K
- Codec: HD MUXED EVS
- Template Name: [Empty]
- LSM ID: 821K
- Application: XFile3



## **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.