

INSTALLATION MANUAL



Multicam Version 20.6 October 2023

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The latest version of the user manual and other EVS product documentation can be found on the EVS documentation portal. The documentation portal can be accessed through the VIA Portal on the following webpage: <u>https://viaportal.evs.com/</u>.



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What's New?

This Installation Manual has not been subject to changes related to new features for release 20.6.

1. Requirements



Before you install Multicam 16 or upgrade to this software version, we suggest that you carefully read this guide and the corresponding release notes.

Multicam 16.X can only be installed on EVS servers equipped:

- with an MTPC board HS873, revision A3/A6 or A3/A5
- with 2 GB of RAM
- with a TGE board as GBE interface
- with internal LAN
- with an MV4 board if an internal multiviewer is installed

The server must have the following hardware revision:

- revision 4.21 for XT3, XS3 and XTnano servers
- revision 5.11 for XT4K and XS4K servers
- revision 6.00 for XT-VIA servers

2. Installing and Upgrading Multicam

2.1. Overview

Installation with USB Key or with XNet(Web) Monitor

You can upgrade Multicam in two different ways:

• Plugging a USB key including the installer into the EVS server.

This upgrade process is described in the Multicam Installation manual.

• Launching the delivered .gz file via XNet (Web) Monitor.

This upgrade process is described in the XNet (Web) Monitor user manual.



Upgrade from Multicam 15 to Multicam 16 can be done directly using a compatible version of XNet(Web) Monitor.

Creating a USB Installation Key

When you upgrade Multicam with a USB key, you first need to prepare the USB installation key you will plug into the EVS server.

You will generate the USB installation key using the Multicam USB Creator tool.

See section "Creating a USB Installation Key" on page 4 for detailed information on how to create a USB installation key.

Standard Installation vs. Installation with Formatting

Two installation methods are available when you upgrade Multicam with a USB key:

Options	Suited
Format and Install Multicam	 for a very first installation when getting an error about disk not correctly formatted when you want to erase all the content of the Linux drive partition
Install Multicam	in all other cases (standard process)

2.2. Creating a USB Installation Key

Introduction

When you first install Multicam 16.X on your EVS server from Multicam 14.X or 15.X, you can, but do not have to, perform the installation from a USB key (of min. 2GB capacity, 4GB recommended).

If you do not use the USB key, you can install the version via XNet Monitor or XNet Web Monitor.

When you upgrade Multicam from a USB key, you first need to create the USB installation key with the requested version using the **Multicam USB Creator** tool.

How to Install the Multicam USB Creator Tool

To be able to generate the USB installation key, you need to install the Multicam USB Creator tool.

You will find the USB Creator executable on the Multicam package, next to the Multicam version file (.tar.gz):

Multicam_15.00 .tar.gz

- 1. Double-click the executable. The Welcome window opens.
- 2. Click Next in the Welcome window.



The License Agreement window opens.

3. In the License Agreement window, read the license agreement, and press I Agree.

Multicam USB Creator 1.0.3 Setup				
	License Agreem Please review the Creator 1.0.3.	ent license terms be	fore installing) Multicam USB
Press Page Down to see the	e rest of the agreem	ent.		
*** QT 5 ***				*
GNU LESSER GENERAL PU Version 3,	BLIC LICENSE 29 June 2007			=
Copyright (C) 2007 Free S Everyone is permitted to c of this license document,	oftware Foundation, opy and distribute vo but changing it is not	, Inc. < <u>http://fsf.</u> erbatim copies t allowed.	org/>	
This version of the GNU L the terms and conditions o	esser General Public f version 3 of the GN	License incorpo IU General Public	rates	-
If you accept the terms of t agreement to install Multica	he agreement, click am USB Creator 1.0.	I Agree to contin 3.	ue. You must	accept the
Nullsoft Install System v2,50 –	[< Back	I Agree	Cancel

The Choose Install Location window opens.

4. In the Choose Install Location window, click **Browse** to browse to the folder where you want to install the Multicam USB Creator tool, or keep the default installation path, and click **Next**.

Multicam USB Creator	1.0.3 Setup	
EVS	Choose Install Location Choose the folder in which to install Me 1.0.3.	ulticam USB Creator
Setup will install Multicam folder, click Browse and s	USB Creator 1.0.3 in the following folder. elect another folder. Click Next to continue	To install in a different a.
Destination Folder	adcast Equipment\Multicam USB Creator	Browse
Space required: 50.9MB		
Space available: 348.3GB		
Nullsoft Install System v2.50		
	< Back No	ext > Cancel



5. The Installing window opens and displays a progress bar, as well as details on the installation when you click on the **Show Details** button.

🧑 Multicam USB Creator :	1.0.3 Setup		
EV5	Installing Please wait while Multi	cam USB Creator 1	.0.3 is being installed.
Extract: MulticamInstall.zip	86%		
Show details			
Nullsoft Install System v2.50 -	<	Back Next	> Cancel

6. When the tool is installed, the Completing Installation window opens. Click **Finish** to close the installation wizard.

How to Generate the USB Installation Key

Once the Multicam USB Creator tool is installed on your computer, you can generate your USB installation key with the Multicam version you want to install.

1. Double-click the Multicam USB Creator Tool icon on your desktop.

The tool opens:

Multicam USB Creator 1.0.3	
Multicam USB Creator Tool 1.0.3	≡∨⊑
Step1: Choose Multicam package	Browse
Step 2: Choose USB device	
F:\ - 3.84 GB	
Show details	
	Create USB Kev

- 2. In the Multicam USB Creator tool, do the following actions:
 - In the Step 1 area, click the **Browse** button, point to the Multicam installation file (.gz file) and click **Open** to come back to the tool.

• In the Step 2 area, click the drop-down field and select the USB key to which the installation package should be copied. The USB key must have at least 2GB capacity, and 4GB is recommended.



3. Click the **Create USB Key** button to start formatting the key and copying the installation package on the key.

The following warning message is displayed: "Are you sure you want to erase all the content of the selected drive?"

4. Click **OK** to confirm you want to proceed to the key creation.

A progress bar is displayed.

When the progress bar shows 100%, the installation package is prepared on the the USB key, and you can close the tool clicking the cross in the upper right corner:

🦻 Multicam USB Creator 1.0.3	
Multicam USB Creator Tool 1.0.3	≡∨⊑
Step1: Choose Multicam package	
OFTWARE\Multicam\15.00\15.00.37.51723\Multicam_15.00.37.51723.ta	r.gz Browse
Step 2: Choose USB device	
F:\ - 3.84 GB	•
Show details	
USB key created, 100%	Create USB Kev

The USB installation key is now ready, and you can proceed to the installation of the Multicam version on the EVS server. See section "Installing Multicam" on page 11.

Once the USB installation key has been created, you can reuse it to install other Multicam packages. You will simply have to copy the .gz installation file in the **Package** folder created on the USB installation key.

You can have several installation files on an USB key. In this case, you are asked to select the Multicam version you want to install at the beginning of the installation process.



2.3. Formatting the System Drive Partition

When to Format the System Drive Partition?



Formatting the system drive partition will format the Linux partition. It will keep the Windows CE partition.

In the following cases, you need to select the option **Format and install Multicam** in the Multicam Installation window:

- when you install Multicam 15.00 for the first time.
- when you want to erase all the content of the system drive partition and perform a full installation.
- if you get the error message: "Disk not correctly prepared for installation".

A full install starts by erasing all the contents of the system drive partition.

Multicam Install and Rescu	e
1 Install Multicam	
> 2 Format and Install Multi	cam
3 Versions	
4 Exit to shell	
5 Support contact	
b Licenses	
7 Shutaown	
<enter> or number to select the operation.</enter>	

When the disk has been formatted, the standard installation automatically follows. See section "Installing Multicam" on page 11.

Required Confirmation

When you launch the system drive formatting, a warning states that the system drive partition will be cleared during the operation:



You need to validate the action:

- Pressing **N** will cancel the operation and return to the installation menu so that you can still back up your data before fomatting the drive.
- Pressing **Y** will proceed to the format of the drive before installing the Multicam.

2.4. Enabling Second MTPC CPU Core

Introduction

When upgrading to Multicam 16.0 or higher, you need to enable the second CPU core on the MTPC in the BIOS, as described in this section.

If you do not perform this action, you will get the following error message when you will try to upgrade:





How to Enable the Second MTPC CPU Core



For a quicker and easier way to enable the second MTPC CPU core, select the option **4. reset bios** in Multicam Maintenance menu (See section "Resetting BIOS" on page 24). The CPU cores are indeed enabled by default.

You will find below the full procedure to access the BIOS and enable the second MTPC CPU core. A quicker and easier way to do this

- 1. As you switch on or reboot the EVS server, press quickly **DEL** (when you see the DOS screen) to enter the BIOS setup.
- 2. In the BIOS menu, select Advanced BIOS features and press ENTER.
- 3. Select Press Enter next to CPU feature and press ENTER.
- 4. Select Disabled next to Core Multi-processing and press ENTER.

This opens the Core Multi-Processing dialog box:

PI	noenix - AwardBIUS CMUS Setup CPU Feature	Utility
C1E Function CPU C State Capabi Execute Disable Bi Core Multi-Process	[Auto] ility [Disable] it [Enabled] sing [Disabled]	Item Help Menu Level 🛌
	Core Multi-Processing Enabled [■] Disabled [] ↑↓:Move ENTER:Accept ESC:Ab	ort
^↓→+:Move Enter:Sele F5: Previous Value	ect +/-/PU/PD:Value F10:Save es F6: Fail-Safe Defaults	ESC:Exit F1:General Help F7: Optimized Defaults

- 5. Using the arrows, move the square bullet to **Enabled** and press **ENTER**.
- 6. Press F10 to open the Save window.
- 7. Type Y and press ENTER to answer positively to the question "Save to CMOS & Exit?"

The server continues booting and the Muticam maintenance window opens, then the Multicam Maintenance window opens.

8. Move in the Multicam Maintenance window to stop the countdown.

At this stage, you can start upgrading to Multicam 16.00 using XNet Monitor, for example.

2.5. Installing Multicam

Overview



- Before you update to Multicam 16.0, make sure that you perform the following actions:
- Upgrading the RAM from 1 GB to 2 GB
- Enabling the 2nd MTPC core in the BIOS

The standard installation process includes the following steps.

The steps requiring the user intervention in all cases are followed by **user** between brackets:

- 1. Inserting the USB key (user)
- 2. Selecting the Multicam version on the USB key (user)
- 3. Check of the disk format (automatic)
- 4. Check of the memory size (automatic)
- 5. Check of the current version (automatic)
- 6. Check of disk space available (automatic)
- 7. Installation of Multicam (automatic)
- 8. Configure the VGA resolution (user)
- 9. Configuring the PC LAN 1 and DNS Server Address (user)
- 10. End of installation process (automatic)

By clicking the hyperlink, you will directly jump to the detailed section in the installation process.

Automatic RAID Reformatting

When you upgrade to Multicam 16.X for the 1st time, the disk RAID are reformatted.

Should you need to downgrade from Multicam 16.X back to 14.X or 15.X, use at least the Multicam maintenance versions 14.02.49 or 15.03.44. Only these maintenance versions include RAID reformatting.



How to Install Multicam

Ø

Should the USB key disconnect from the server, an error message would appear during the installation process to inform you that the installation has failed. In this case, you need to reboot the server and restart the installation process.

1. Inserting the USB key

You have previously prepared the USB installation key as described in section "Creating a USB Installation Key" on page 4.

1. Shutdown the EVS server, insert the USB installation key and switch on the EVS server.

The EVS server detects a USB key is inserted, and displays the following window if you have already a version of Multicam installed on your EVS server:



2. Press **Enter** to enter the Multicam Install and Rescue window or wait 5 seconds and the window will automatically be displayed:

Multicam Install and Rescue
> 1 Install Multicam
2 Format and Install Multicam
3 Versions
4 Clear configuration lines
5 Reset bios
6 Exit to shell
7 Support contact
8 Licenses
9 Shutdown
<pre><enter> or number to select the operation.</enter></pre>

The Install Multicam option is selected by default.

Press Enter to launch the Multicam installation process.

2. Selecting the Multicam Version on USB Key

If several Multicam versions are available on the USB key, you will be prompted to select the version you want to install:



• Press the up and down arrows to select the version you want to install and press Enter.

The installation process is directly launched.



3. Check of Disk Format

During the installation process, the disk format is checked to make sure that the disk is correctly formatted for the installation.

If this is not the case, the installer displays the following message:

"Disk not correctly prepared for installation. Please reboot the server and retry the installation of Multicam".

This message will appear when you upgrade from Multicam 14.XX directly to Multicam 16.XX. In this case, you need to restart the installation selecting the **2. Format and Install Multicam** option from the Multicam Installation menu.

If you have to select the option 2, you will have to type **Y** to confirm that the Linux partition will be created and formatted:



4. Check of Memory Size

During the installation process, the memory size is checked to make sure that 2GB of RAM is available on the MTPC board.

If this is not the case, the installer displays the following message:

"Not enough memory to install or start Multicam Please contact your EVS regional office".

In this case, you need to request an upgrade of the MTPC board to the EVS regional office.

5. Check of Current Version

During the installation process, the highest installed version is checked.

Should the same Multicam version already be installed, you would be asked whether you want to overwrite the existing installation.

6. Check of Disk Space Available

During the installation process, the disk space is checked to determine whether the disk has enough space to install a new version.

If this is not the case, the installer displays the following message:

"Package installation failed! Not enough space available for installation of Multicam, XXX MB are missing. Please delete unused version and relaunch the installation process."

In this case, you are redirected to the maintenance menu from which you can uninstall unused versions. See section "Managing Multicam Versions" on page 21.

7. Installation of Multicam

Once all checks have been performed, the installer proceeds to the installation.

During the installation, the message "Installation in progress" is displayed:

Install Multicam		
	1	
Installation in progress		



8. Configuring the VGA Resolution

You will be requested to select the appropriate resolution for the VGA:

- 1. Use the up and down arrow keys to select the requested value.
- 2. Press Enter to validate:



9. Configuring the PC LAN 1 and DNS Server Address

When Multicam has been successfully installed, the following window is displayed to let you enter:

- the hostname and the PC LAN 1 address of the EVS server;
- the IP address of a primary and secondary DNS server and the search domain.
- 1. Use up and down arrows to select a field.
- 2. Type the value, and press Enter to validate the changes.
- 3. Press Enter again to apply the configuration.

		Install Mu	ılticam		
Hostnamo'	0326270				
nostname.	HJZUZ (B				
PC Lan 1 Modei	otatio		DNS	10 100 241 100	
noue.	10.129.88.11		Secondaru:	10.190.241.100	
	255.255.255.0		Domain :	nmos.wmlab.tv	
	10.129.88.1				
<enter> to</enter>	apply configurati	on			

The entered data will be populated to all Multicam configuration lines.



To be able to view the DNS server settings in the screen above, you need to use the USB Creator tool version 1.5.10.

For the search domain you can use up to 24 characters.



9. End of Installation Process

When the installation process is finalized, you will be requested to remove the USB key and press **Enter** to reboot the EVS server:



When you will boot the EVS server for the first time after upgrading to Multicam 16.X, you will be requested to perform a clear video disks. This will also reformat the disk RAID to make it compatible with Multicam 16.X. The **Clear Video Disk** option is available in the Multicam Setup module. Refer to the EVS server Configuration manual for more information.

3. Maintaining Multicam

3.1. Multicam Maintenance Menu

Introduction

The **Multicam Maintenance** menu is similar, but not identical, to the **Multicam Install and Rescue** menu: The 1st two installation commands are replaced by a start command.

The first chapter of this manual deals with the installation process, which covers the installation commands. This chapter deals with the maintenance options available in the Multicam Maintenance menu.

Accessing the Multicam Maintenance Menu

1. Switch on or reboot the EVS server.

When the EVS server boots onto the Linux partition to access Multicam 20 (or higher), the Multicam Maintenance window opens after the boot sequence:

M	ulticam Maintenance
> <mark>1 Sta</mark> :	rt version 20.00,00
2 Vers	sions
3 Clea	ar Configuration lines
4 Hare	dware maintenance
5 Res	et bios (HS873 only)
6 Exi	t to shell
7 Supj	port contact
8 Lice	enses
9 Shu	taown
<enter> or number to select the</enter>	he operation.

If you do not select one of the following commands within 7 seconds, the active Multicam version is automatically launched.



How to Select a Command

Proceed as follows to call the commands:

- 1. Select the requested command in the Multicam Maintenance menu using the keyboards up and down arrows.
- 2. Press ENTER to execute the command or enter the sub-menu.

Available Commands

The following commands are available. You can click the section corresponding to the command to jump to a description of the command:

Command	Section
Start version 20.XX.XX	"Starting Multicam" on page 20
Versions	"Managing Multicam Versions" on page 21
Clear Configuration Lines	"Clearing Configuration Lines" on page 23
HW Maintenance	"Performing Hardware Maintenance" on page 25
Reset BIOS	"Resetting BIOS" on page 24
Exit to shell	"Accessing the Linux Shell" on page 30
Support contact	"Viewing Support Information" on page 31
Licenses	"Viewing License Information" on page 32
Shutdown	"Shutting Down the EVS Server" on page 33

3.2. Starting Multicam

How to Start the Active Version

As you are in the **Multicam Maintenance** menu, Multicam will automatically start with the active version (last version used or installed) within 7 seconds if you do not press any key on the keyboard.

You can also select the **Start Version 20.XX.XX** command to manually start the Multicam active version more rapidly.

By default, the active version is the version you ran or installed last on the EVS server.

How to Start Another Multicam Version

You can start another Multicam version, even a Multicam 16 or lower, by changing the active version as follows:

- 1. Select 2. Versions.
- 2. Select 1.Change active version.
- 3. Select the Multicam version you want to start with the up and down arrows, and click ENTER.

A Change Version window opens with the confirmation message that your active version has successfully been changed:



4. Press ENTER to reboot the EVS server.

The **Multicam Maintenance** menu will be displayed again, and the new active version can be launched manually or automatically after 7 seconds.

3.3. Managing Multicam Versions

Introduction

In the **Multicam Maintenance** menu, select the **Versions** command to access a sub-menu from which you can manage the Multicam version, and perform the following actions described below:

Changing the active version

(See section "How to Start Another Multicam Version" on page 21)

- Deleting a specific version
- Deleting all unused versions



How to Delete a Specific Version

- 1. Select Versions in the Multicam Maintenance menu.
- 2. Select Delete specific version.
- 3. Select the Multicam version you want to delete with the up and down arrows, and click ENTER.

A Delete Specific Version window opens with the confirmation message that the selected version has successfully been removed:



4. Press ENTER to return to the Multicam Maintenance menu.

How to Delete all Unused Versions

This command allows you to delete all Multicam versions except the active version:

- 1. Select Versions in the Multicam Maintenance menu.
- 2. Select Delete all unused versions.

A warning message asks you to confirm the deletion command:

"All versions of Multicam will be deleted, continue? y/n"

3. Type **y** and press **ENTER** to confirm the Delete command.

During the deletion, the message **"Uninstall in progress"** is displayed, followed by the message **"Remove versions XX.YY.ZZ succeeded"** for each deleted version.

4. When all versions are deleted, press ENTER to return to the Multicam Maintenance menu.

3.4. Clearing Configuration Lines

If your configuration lines become invalid further to an upgrade or downgrade of Multicam, you can clear them from the **Multicam Maintenance** menu.

1. In the Multicam Maintenance menu, select the Clear configuration lines command.

A warning message asks you to confirm the clear command:

"All configuration lines of Multicam will be deleted, continue? y/n"

- 2. Type **y** and press **ENTER** to confirm the Clear command.
- 3. When all configuration lines are deleted, press ENTER to return to the Multicam Maintenance menu.



3.5. Resetting BIOS



The **Reset BIOS** option is not available for an XT-VIA/XS-VIA/XT-GO server equipped with a M4X.

If needed, Multicam can reset the BIOS of the MTPC board.

As part of resetting the BIOS, you are prompted to select the VGA resolution:

1. Select the requested setting and press ENTER



The settings are then applied.

2. Press ENTER again to reboot.



3.6. Performing Hardware Maintenance

In the **Multicam Maintenance** menu, select the **HW Maintenance** command to get access to a number of tools that will allow you to update some of the boards in the server.



V4X Base Board Update

Introduction

This tool is used to update the V4X base boards so PTP can be used as Genlock source.

Update Procedure

1. Select V4X Base Board #x and press ENTER.

The V4X Base Reflash screen appears.



For XT-VIA/XS-VIA/XT-GO, two boards must be checked whereas for XT4K/XS4K only board #1 must be checked.

2. Check the current ID of the V4X base board.





- If it corresponds to the available ID, no update is needed.
- If it differs, you need to perform an update. Continue to step 3.
- 3. Type capital **Y** and press **ENTER** to start the update. To cancel the update, type any other character and press **ENTER**.



Do not power off the server during the update. Do not Power Off -> Unit will be unusable and must be returned to factory!

Once the update has been successfully completed, you will be redirected to the **Hardware Maintenance** menu.

4. To complete the update procedure, switch off the server and switch it back on again.

H4X-4S Board Update

Introduction

This tool is used to update the H4X-4S board so XNet-VIA can be used as XNet speed.



This procedure only applies to XT-VIA/XS-VIA/XT-GO.

Update Procedure

- 1. Select H4X Base Board and press ENTER.
- 2. In the H4X Base Reflash screen, check the current ID of the H4X base board.
 - If it corresponds to the available ID, no update is needed.
 - If it differs, you need to perform an update. Continue to step 3.



3. Type capital **Y** and press **ENTER** to start the update. To cancel the update, type any other character and press **ENTER**.



Do not power off the server during the update.

Once the update has been successfully completed, you will be redirected to the **Hardware Maintenance** menu.

4. To complete the update procedure, switch off the server and switch it back on again.

V4X SDIO Board Update

Introduction

This tool is used to update the V4X SDIO board.

This might be required in Multicam 16 or higher to work in XiP, or to be able to work with the XHub-VIA Live IP Configurator in 59.94hz for certain 1080p or UHD-4K configurations.

Update Procedure

- 1. Select V4X Sdio and press ENTER.
- 2. In the V4X SDIO Board Management screen, press K.





3. In the Check for SDIO PIC Firmware Update screen, check if the V4X SDIO board needs an update.

If an update is recommended, the following warning will be displayed: 'Need upgrade to xxxx'.

Check for SDIO PIC Firmware Update			Update Mode = Latest		
V4X-1 A: 2U25 A2	Comp=23	BL=01	FW=00.06 - Update Not Needed		
V4X-1 B: 2U2S A2	Comp=23	BL=01	FW=00.06 - Update Not Needed		
V4X-1 C: 2U25 A2	Comp=23	BL=01	FW=00.06 - Update Not Needed		
V4X-1 D: 2U25 A2	Comp=23	BL=01	FW=00.06 - Update Not Needed		
V4X-2 A: 2U25 A2	Comp=23	BL=01	FW=00.06 - Update Not Needed		
V4X-2 B: 2U25 A2	Comp=23	BL=01	FW=00.06 - Update Not Needed		
V4X-2 D: 2U25 A2	Comp=23	BL=01	FW=00.06 - Update Not Needed		
H4x Sdti: H4xST Al	Comp=22	BL=01	FW=00.01 - Update Not Needed		
H4x 45: H4x45 A0	Comp=00	BL=01	FW=00.01 - Need upgrade to 0002		
Press any key to conti	nue				

- 4. Press any key to return to the previous screen.
- 5. Press **F** to start the update.

SDIO PIC Firmware Upda	te	Update Mode = Latest
V4X-1 A: 2U25_A2	Comp=23 BL=01	FW=00.06 - Update Not Needed
V4X-1 B: 2U2S_A2	Comp=23 BL=01	FW=00.06 - Update Not Needed
V4X-1 C: 2U2S_A2	Comp=23 BL=01	FW=00.06 - Update Not Needed
V4X-1 D: 2U2S_A2	Comp=23 BL=01	FW=00.06 - Update Not Needed
V4X-2 A: 2U25_A2	Comp=23 BL=01	FW=00.06 - Update Not Needed
V4X-2 B: 2U2S_A2	Comp=23 BL=01	FW=00.06 - Update Not Needed
V4X-2 D: 2U2S_A2	Comp=23 BL=01	FW=00.06 - Update Not Needed
H4x_Sdti: H4xST_A1	Comp=22 BL=01	FW=00.01 - Update Not Needed
H4x_45: H4x45_A0	Comp=00 BL=01	FW=00.01 - Make Upgrade to 0002
V4X-1 A: 2U2S_A2	Comp=23 BL=01	FW=00.06 - Compare OK
V4X-1 B: 2U2S A2	Comp=23 BL=01	FW=00.06 - Compare OK
V4X-1 C: 2U2S A2	Comp=23 BL=01	FW=00.06 - Compare OK
V4X-1 D: 2U2S A2	Comp=23 BL=01	FW=00.06 - Compare OK
V4X-2 A: 2U2S A2	Comp=23 BL=01	FW=00.06 - Compare OK
V4X-2 B: 2U2S A2	Comp=23 BL=01	FW=00.06 - Compare OK
V4X-2 D: 2U25 A2	Comp=23 BL=01	FW=00.06 - Compare OK
H4x Sdti: H4xST Al	Comp=22 BL=01	FW=00.01 - Compare OK
H4x 45: H4x45 A0	Comp=00 BL=01	FW=00.02 - Compare OK
Press any key to conti	nue	

- 6. Once the update has been successfully completed, press any key to return to the previous screen.
- 7. To complete the update procedure, switch off the server and switch it back on again.

M4X Board Update

Introduction

This tool is used to update the M4X board.

This is required to allow the M4X board to support Odd and Even parities which are required by some serial controllers such as VDCP or Odetics. Without this update, the board only supports the parity None.



This procedure only applies to XT-VIA/XS-VIA/XT-GO.

Update Procedure

- 1. Select **M4X Board** and press **ENTER**.
- 2. In the M4X Base Reflash screen, check the current ID of the M4X base board.
 - If it corresponds to the available ID, no update is needed.
 - If it differs, you need to perform an update. Continue to step 3.



M4x - Base Reflash (1-00):
In case of bad use of this Software, or in case of Power Supply Failure
during update, the unit will be unusable and must be returned to factory!
M4x Board:
Current FPGA ID: 0x01
FPGA Path for Indate · FVF Path
TPGA Path for Goal Bedeter And Path
rPGA filename for update: M4x 02 jic
FPGA File Date and Time: 2021-02-04 07:03
Porlagh - Do you want to continue IV to continuel 2
Reflash - bo you want to continue [1 to continue] :

3. Type capital **Y** and press **ENTER** to start the update. To cancel the update, type any other character and press **ENTER**.



Do not power off the server during the update.

Once the update has been successfully completed, you will be redirected to the **Hardware Maintenance** menu.

4. To complete the update procedure, switch off the server and switch it back on again.

3.7. Accessing the Linux Shell

In the **Multicam Maintenance** menu, select the **Exit to Shell** command to exit the **Multicam Maintenance** menu and goes back to the Linux shell to be able to use command lines.

This is possible to activate specific parameters via a file that will launch the Linux command lines. Contact the technical support for additional information.

3.8. Viewing Support Information

In the **Multicam Maintenance** menu, select the **Support contact** command to view all support contacts for the EVS video servers. This information may be outdated.

	Contacts			
TECHLINE SUP	PFORT			
Asia & Pacif				
	Phone Out of working hours phone Email			
Hong Kong	+852 2914 2501 +852 2201 1599 support.APAC@evs.com			
China	+86 10 5670 9883 +86 186 0139 3869 support@evschina.com			
Australia	+61 2 9998 7600 +852 2201 1599 support.australia@evs.com			
Europe, Midd	le East & Africa			
	Phone Out of working hours phone Email			
Belgium	+32 4 361 70 00 +32 495 28 40 00 support@evs.com			
France	+33 1 46 99 9003 +32 495 28 40 00 support.france@evs.com			
Italy	+39 334 631 14 93 +32 495 28 40 00 support.italy@evs.com			
UK	+44 1 372 387 266 +32 495 28 40 00 support.uk@evs.com			
Middle East	+971 4 3654 231 +32 495 28 40 00 support.dubai@evs.com			
Iberica	+34 91 490 39 33 +32 495 28 40 00 support.iberica@evs.com			
Germany	+49 89 4111 949 77 +32 495 28 40 00 support.germany@evs.com			
North America & Latin America				
	Phone Out of working hours phone Email			
USA	+1 973 575 7813 +1 973 575 7813 support usadeve com			
Mavico	152 55 46 31 22 00 152 55 46 31 22 00 support mexicoleve com			
HCX100	+32 33 10 31 22 05 +32 33 10 31 22 05 Support.mexicogevs.com			
(FSC) soturn	to main many (UD) and (DOWN) to concil tout			



3.9. Viewing License Information

In the Multicam Maintenance menu, select the Licenses command to view all open source software licenses used by Multicam:

Licenses
EVS END-USER LICENSE AGREEMENT
This End-User License Agreement ("EULA") is a legal agreement between
you and EVS Broadcast Equipment SA or any other relevant entity of the
EVS group ("EVS") regarding the software ("SOFTWARE PRODUCT" -
including third-party software and/or open source software ("Third
Party Software") for which additional or different license terms may
apply ("Third Party Software License Agreements") which are either
provided with the documentation/ notice accompanying the SOFTWARE
PRODUCT or available on
https://evs.com/sites/default/files/Additional_License_Terms.pdf or
upon request and to which you also hereby agree) of which you have
lawfully acquired the license as SOFTWARE PRODUCT embedded,
incorporated or in connection with the relevant EVS product ("EVS
PRODUCT"), and which includes computer software and may include
associated media, printed materials, and "online" or electronic
documentation.
<esc> return to main menu, <up> and <down> to scroll text</down></up></esc>

3.10. Shutting Down the EVS Server

In the Multicam Maintenance menu, select the Shutdown command to shut down the EVS video server.

You can switch off the server when the **System halted** message is displayed:





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