



XHub Tech Note



XHub v.03.01 upgrade procedure

XHub upgrade 080407.doc

Authors : MDU, CLA

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1. DIFFUSION LIST

Name	Company	Information	Action	Validation

2. DOCUMENT HISTORY

Date	Authors	Version	Description
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3. CONTENT

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EVS Broadcast Equipment sa - Liege Science Park - 16, rue Bois St-Jean - B-4102 Ougrée - Belgium
Tel : +32 4 361 7000 - Fax : +32 4 361 7099 - Email : products@evs.tv

4. Preliminary notes

There are 2 types of hardware for XHub :

- XHub 540Mbps : can be used with XNet network at 270 and 540Mbps
- XHub 1.5Gbps (XHub[2]) : can be used with XNet and XNet[2] networks at 270, 540 and 1485Mbps. There is a sticker at the back those mentioning XHub[2].

There are 4 current software versions for XHub :

- v. 1.07, for Multicam 5.xx.xx and 6.xx.xx
- v. 2.05, for Multicam 7.xx.xx or later, for XHub 540Mbps
- v. 2.06, for Multicam 7.xx.xx or later, for XHub 1.5 Gbps
- v. 3.01, for Multicam 9.xx.xx or later, for XHub 540Mbps and 1.5 Gbps¹

XHub 1.5Gbps running v3.01 should only be used with XT[2] servers running Multicam 09.00 or later.

XHub's 1.5Gbps CAN NOT be used with Multicam 5.xx.xx or 6.xx.xx.

Only XHub's 540Mbps running v. 1.07 are compatible with Multicam 5.xx.xx or 6.xx.xx

The procedure described in this document explains how to identify and upgrade an XHub.

5. Identify the current version of XHub

1. Turn off the XHub
2. Move down all 4 dip switches located on the left side of the BNC connectors
3. Turn on the XHub
4. The branch status LEDs show the software version in a binary pattern :

Branch LED #	1	2	3	4	5	6	7
v. 1.06		green	red		green	green	
v. 1.07		green	red		green	green	green
v. 2.03	green		red			green	green
v. 2.04	green		red		green		
v. 2.05	green		red		green		green
v. 2.06	green		red		green	green	
v. 3.01	green	green	red				green

5. To return the XHub to its normal operational mode : turn it off, move the 4 dip switches up, turn on the XHub

¹ Please note that XHub versions 2.05 and 2.06 can be used with Multicam 9 and XHub version 3.01 can be used with Multicam 7 or 8. Nevertheless, Multicam 9 SDTI functions are optimized to run on XHub version 3.01.



6. Identify the XHub type

The SPEED led helps identifying the XHub Type :

1. If the SPEED led is OFF then the XHub Type is 540 Mbps
2. If the SPEED led is ON then the XHub Type is 1.5 Gbps

7. Creating the upgrade media

1. Download the file "XHub upgrade 3.01.exe" in a temporary folder on your PC.
2. Execute this file and select where to put the self-extracted files. Select 'writing on floppy' if you want to create the upgrade media on a floppy. To the contrary, select 'file extraction' to create the upgrade media on a USB key. Select the letter corresponding to the USB key with the Browse button
3. Press 'OK' to create the upgrade media

8. Upgrade Procedure for XHub 540Mbps

1. Turn off XHub
2. Move down all 4 dip switches located on the left side of the BNC connectors
3. Turn on XHub.
4. Make sure that SPEED is OFF before continuing the upgrade, confirming that the XHub is the 540Mbps type.
5. Insert the XHub upgrade media into the XT[2] server
6. Use a null-modem cable to connect the COM1 port (RS232 #1 "Tablet") of the XT[2] to the RS232 port of the XHub.
7. Exit all applications on the XT server until you reach the DOS prompt

To upgrade to v. 3.01 (Multicam 9.xx only)

1. At the DOS prompt, select the letter corresponding to the upgrade media
2. Type 'upgrade' [ENTER].
3. At the prompt, type '2' [ENTER] to install the software.
4. When the transfer is complete, an OK appears next to the file name, and the LEDs on the XHub flash briefly once.
5. A counter on the VGA shows again the progress of the transfer. When the transfer is complete, an OK appears next to the file name.
6. Turn the XHub off
7. Move up all 4 dip switches on the XHub
8. Turn the XHub on again. The upgrade is completed.

To upgrade to v. 1.07 (Multicam 5.xx and 6.xx only)

1. At the DOS prompt, select the letter corresponding to the upgrade media
2. Type 'upgrade' [ENTER].
3. At the prompt, type '1' [ENTER] to install the software.
4. When the transfer is complete, an OK appears next to the file name, and the LEDs on the XHub flash briefly once.
5. A counter on the VGA shows again the progress of the transfer. When the transfer is complete, an OK appears next to the file name.
6. Turn the XHub off
7. Move up all 4 dip switches on the XHub
8. Turn the XHub on again. The upgrade is completed.





9. Upgrade Procedure for XHub 1.5Gbps to v.3.01 (Multicam 9 or higher)

1. Turn off XHub
2. Move down all 4 dip switches located on the left side of the BNC connectors
3. Turn on XHub.
4. Make sure that SPEED is ON before continuing the upgrade, confirming that the XHub is the 1.5Gbps type.
5. Insert the XHub upgrade media into the XT[2] server
6. Use a null-modem cable to connect the COM1 port (RS232 #1 "Tablet") of the XT to the RS232 port of the XHub.
7. Exit all applications on the XT server until you reach the DOS prompt
8. At the DOS prompt, select the letter corresponding to the upgrade media
9. Type 'upgrade' [ENTER].
10. At the prompt, type '3' [ENTER] to install the software.
11. When the transfer is complete, an OK appears next to the file name, and the LEDs on the XHub flash briefly once.
12. A counter on the VGA shows again the progress of the transfer. When the transfer is complete, an OK appears next to the file name.
13. Turn the XHub off
14. Move up all 4 dip switches on the XHub
15. Turn the XHub on again. The upgrade is completed.

