# **Upgrade NVR-DVR using serial cable**

NVR –DVR can upgrade using web browser or local gui. in some scenario where upgrade fail and not able to access the device, in this case need serial cable.

Need special cable or use full baud cable, if not have cable please contact RMA center.



NVR FW upgrade corrupt – Cases

- 1, If the NVR DVR use custom FW, don't upgrade directly without consult the Hikvision support.
- 2, Upgrade from Old FW to Latest FW without upgrading the proper step.

E.g. Upgrade only like V3.4.XX – V4.1.XX - V4.2.XX - 4.4.XX

## **Tools required for upgrade:**

- 1, Serial cable
- 2, Putty or Secure CRT
- 3, TFTP tool : http://philippe.jounin.pagesperso-orange.fr/tftp-server-for-windows.html

## Step to upgrade.

- 1, Connect serial cable to device
- 2, Connect network of device connect to your PC /Laptop. Keep PC IP as 192.168.1.128 or 192.0.0.128
- 3, Copy the FW to the TFTP folder

### **HIKVISION**

		🏘 Tftpd32 by Pł	n. Jounin	_		
		Current Directory	C:\Users\jocy.john\D	esktop\tftpserv	<ul> <li>Browse</li> </ul>	
Internet Protocol Version 4 (TCP/IPv4) Properties	×	Server interfaces	192.168.1.128	TP-LINK G	Show Dir	r
		Tftp Server Tftp	Client DHCP server	Syslog server	DNS server	►
General		peer	file	start time	progress	
this car get a sector is assigned automatically if your network sup this capability. Otherwise, you need to ask your network administ for the appropriate IP settings.	rator A					
Use the following IP address:						
IP address: 192 . 168 . 1 . 128						
Subnet mask: 255 . 255 . 255 . 0		<				>
Default gateway:				4		_
		About	Setting	gs	Help	

#### tftpserv

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÷.	Name	Date modified	Туре	Size
	📄 digicap.dav	3/24/2021 8:37 PM	DAV File	52,118 KB
7	mvcli.dat	2/17/2014 5:12 PM	DAT File	1,315 KB
*	🏘 Tftpd32	9/30/2016 11:41 PM	Application	211 KB
*	d tftprc_en.dll	12/5/2007 6:29 AM	Application exten	28 KB
*	📧 tftpserv	12/4/2007 6:35 AM	Application	240 KB
*	🔄 tftpserv	12/5/2007 6:29 AM	Configuration sett	1 KB
	tftpserv	5/21/2015 1:53 PM	Text Document	71 KB

### Select correct Serial port, Baud should be 115200

- 🗸 🛱 Ports (COM & LPT)
  - High-Speed USB Serial Port (COM1)
  - High-Speed USB Serial Port (COM2)

🕵 PuTTY Configuration		? ×
Category: Session Logging Terminal	Basic options for your PuTTY	session
Keyboard Bell Features	COM1	5peed
Window     Appearance     Behaviour     Translation     Selection     Colours     Connection     Proxy     SSH     SSH     Serial     Telnet	O SSH ● Serial O Other: Tell Load, save or delete a stored session Saved Sessions Default Settings	Load Save Delete
···· Rlogin ····· SUPDUP	Close window on exit: Always Never Only on	clean exit
About Hel	D Open	Cancel

### **HIKVISION**

Start the Device – Press CTRL + U.

Type U, input details

Now press [u/U] key to upgrade software: u File system error,please upgrade by TFTP Please input ip address of device: 192.168.1.64 Please input ip address of upgrade server: 192.68.1.128 Confirm?(y/n):

TFTP will start send data which show error, Change the IP of PC to 192.0.0.128, restart the step.

#### After change IP and restart step ,Data start sending .

Now press [u/U] key to upgrade software: u					
File system error,please upgrade by TFTP	🏘 Tftpd32 by	/ Ph. Jounin	-	- 🗆	$\times$
Please input ip address of device: 192.168.1.64					
Please input ip address of upgrade server: 192.68.1.128	🏘 digicap.da	av to 192.0.0.64	× ser	rv 🔻	Browse
Confirm?(y/n): y		File size - E2200024			N D:
timeout for link [4999]!	2210808 Bu	rile size : 0000024 tes sent 1105404 F	Rutes/sec	<u>د ا</u>	5now Dir
MAC: 54-C4-15-E1-8E-9C	2210000 by	(63.56HC 11054041	ve	r DNS serve	rer I + I →
TFTP from server 192.68.1.128; our IP address is 192.168.1.64; sending through gateway 192.0.0.1			tim	n program	
Download Filename 'digicap.dav'.	100.0.0.0400	01 (15)	00.44.3		
Download to address: 0x40008000	132.0.0.64:20	u (digicap.dav	× 03:44:3	50 4%	4
Downloading: ТТТТТТТТТТТТТТТТТТТТТТТТТТТТТТТТТТТТ	ТТ				
Retry count exceeded; starting again					
TFTP from server 192.68.1.128; our IP address is 192.168.1.64; sending through gateway 192.0.0.1					
Download Filename 'digicap.day'.					
Download to address: 0x40008000					
Downloading: T T T T T T T T T T T T T T T T T T					
Abort	1				· · ·
Please input ip address of device: 192.0.0.64		4			
Please input ip address of upgrade server: 192.0.0.128	About	Sett	ings	He	elp
Confirm?(y/n): v					
timeout for link [5000]!					
MAC: 54-C4-15-E1-8E-9C					
TFTP from server 192.0.0.128; our IP address is 192.0.0.64					
Download Filename 'digicap.dav'.					
Download to address: 0x40008000					
Downloading: ##					

start to write files to partition 0
Configures yaffs mount nand success!
10-1. write nand/headEx len: 1024
10-2. write nand/uImage len: 9735584
10-3. write nand/start.sh len: 11992
10-4. write nand/sys_app.tar.lzma len: 26235552
10-5. write nand/gui_res.tar.gz len: 9194720
10-6. write nand/webs.tar.lzma len: 8187504
10-7. write nand/TX1_Version.bin len: 40
10-8. write nand/RSA len: 24
10-9. write nand/new_10.bin len: 808
10-10. write flag file nand/version.bin len: 4
update partition 0 success!
start to write files to partition l
Configures yaffs mount nandl success!
10-1. write nandl/headEx len: 1024
10-2. write nandl/uImage len: 9735584
10-3. write nandl/start.sh len: 11992
10-4. write nandl/sys_app.tar.lzma len: 26235552
10-5. write nandl/gui_res.tar.gz len: 9194720
10-6. write nandl/webs.tar.lzma len: 8187504
10-7. write nandl/TX1_Version.bin len: 40
10-8. write nandl/RSA len: 24
10-9. write nandl/new_10.bin len: 808
10-10. write flag file nandl/version.bin len: 4
update partition 1 success!
Press ENTER key to reboot

Once completed reboot, you can access the NVR using web browser or Local GUI. You can see in SADP tool

🔲   ID	▲   Device Type	Status	IPv4 Address	Port	Max. Bo	nd Qua  Can be bonde	ed?  Software Version
001	DS-7608NI-12/8P	Inactive	169.254.105.2	8000	0	No	V4.40.015build 200817

## Some Common tools –

RS232 USB cable



Full Baud cable

