

Title:	Connecting IP Cameras to Plug and Play NVRs with Secure Activation	Version:	1.0	Date:	6/24/15
Product:	All Hikvision DVRs/NVRs				
Action Required:	None, Information only				

#### Summary

With the introduction of the new secure activation procedure, the interaction between NVRs with a Plugn-Play feature and IP cameras has slightly changed. There have been some questions and concerns regarding this issue, and this technical bulletin will provide solutions for three different scenarios that can occur.

## 1. I have a DS-76xxNI-SE/(8)P NVR with firmware v2.3.10 build 141128 or older. How doI connect cameras with firmware v5.3.0 to my NVR?

To add cameras with firmware v5.3.0 to the DS-76xxNI-SE/(8)P NVR, the cameras have to be activated before they can be added. The camera activation is discussed in **"New Secure Activation Process for IP Cameras"** technical bulletin. After the cameras are activated, the cameras' IP address must be changed to **192.168.254.x** (e.g., 192.168.254.2) in order to be added to the NVR in a **MANUAL** mode.

- 1. Activate the cameras (see "New Secure Activation Process for IP Cameras" technical bulletin)
- 2. Change the cameras IP address to 192.168.254.x (e.g., 192.168.254.2, 192.168.254.3...) (Figure 1).
- 3. On the NVR go to **Menu→CAMERA SETUP (Figure 2)**.
- 4. Click the PENCIL (edit) icon next to the channel number (D1, D2...) (Figure 3).
- 5. Change the ADDING METHOD to MANUAL (Figure 4).
- 6. Enter the camera's IP address, username, and password (Figure 5).
- 7. Click APPLY.

Q			SADP	- • ×	<u>Q</u>			SADP	- 0
Q Online Devices	🕡 Help				Q Online Devices	🕖 Help			
Online Devices     Online Devices     Online Devices     Device Type     Ds-2cD2412F-W     DS-7608NI-SE/8P     DS-7608NI-SE/8P	IPv4 Address         V           192.0.0.64         10.102.102.210	Security Active Active Active	Save as Excel Refresh Port Software Version IPvd Gr 8000 V5.2.3build 14 10.10 8000 V2.3.10build 1 10.102. 8000 V2.3.10build 1 10.102.	Modify Network Parameters IP Address: Port: Subnet Mask: IPv4 Gateway; IPv4 Gateway; IPv6 Gateway; IPv6 Fadress: IPv6 Protx Lengt HTTP Port: Device Serial N Enable DHC	Collabe Devices     Total number of     Device Type     DS.2CD2412F.W     DS.7608NL-SE/8P     DS.7608NL-SE/8P		Security Active Active Active	Save as Excel      Perfesh     Port Software Version IPv4 Gi     8000 V5.2.3build 14 10.102.     8000 V2.3.10build 1 10.102     8000 V2.3.10build 1 10.102	Modify Network Parameters           IP Address:         192 168 254 2           Port:         8000           Subnet Mask:         255 255 0           IPv4 Gateway:         Image: Ima
-				Password Save Password Recovery Security Code: OK	7 (				Password Recovery Security Code: OK

Figure 1. Changing the camera's IP address



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Figure 2

	IP Came	ra No.				No. Ed	t IP Address Amoun	t of Device Ty	Protocol Configu	ırati Subnet Ma
Cameras	IP Came	ra Address								
OSD	Protocol			F	IKVISION					
	Configur	ation Port		8	000					
Image	Camera	User Name		a	dmin					
	Camera	Password								
PTZ				Prot	ocol	Add	-	Quick Add	Sea	irch
Privacy Mask	Camera N	0.	Delete	Status	Camera Name	IP Camera Address	Configuration Port	Protocol	Device Modle	Serial No.
	D1	1		Δ	Camera 01	192.168.254.2	8000	HIKVISION		
Tamper-proof	D2				Camera 01	192.168.254.3	8000	HIKVISION		
Video Loss	D3	0			Camera 01	192.168.254.4	8000	HIKVISION		
1000 2055	D4	0				192.168.254.5	8000	HIKVISION		
	D5				IPCamera 05	192.168.254.6	8000	HIKVISION		

Figure 3 Click the PENCIL (edit) icon



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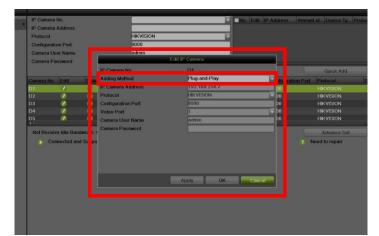


Figure 4 Change the adding method from Plug-n-Play to MANUAL.

IP Camera Address Protocol		HIKVISIO	N						
Configuration Port		8000			_				
Camera User Name Camera Password		admin	E	dit IP Camera	1		٦		
Califora Password		Camera No.		D1				E	Quio
Camera No. Edit		ding Method Camera Address		Manual 192.168.2	54.2		19	ration Por	t Protoco HIKVIS
D2 🕖	Pro	tocol		HIKVISION					HIKVIS
D3 💋	Co	nfiguration Port		8000					HIKVIS
D4 💋	Vic	leo Port		1		-			
D5 🚺	Ca	mera User Name		admin			12		HIKVIS
Net Receive Idle Ba	ndwid : 2 Ca	mera Password				123		F	Adva
Connected a	ind Su <mark>r</mark> po		4	4	2 5	6	Γ		Need to re
				7					
				ESC					
				1					
				Apply	OK	Cancel			

Figure 5. Enter the camera's IP address and the password

## 2. I have a DS-76xxNI-E1(E2) NVR with firmware v3.0.7 or older, or DS-7716NI-SP/16 NVR with firmware v3.1.3 or older. How do I connect cameras with firmware 5.3.0 to my NVR?

There are two approaches to this situation.

- A. Upgrade the firmware of the DS-76xxNI-E1(E2) to v3.1.0. If working with DS-7716NI-SP/16, then upgrade the NVR to v3.1.5. Change the NVR's password to at least a minimum required WEAK level. The password strength is discussed in the "New Secure Activation Process for DVRs/NVRs" technical bulletin. After performing those two steps, connect the cameras to the NVR.
  - Download the firmware from <u>http://www.hikvision.com/en/us/download\_more.asp?id=1509</u> © 2015 Hikvision USA Inc. All Rights Reserved. 908 Canada Court, City of Industry, CA 91748 • Phone: +1 909-895-0400 • Fax: +1 909-595-0788 Email: techsupport.usa@hikvision.com • www.hikvision.com



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- 2. Unzip the firmware and copy the "digicap.mav" file to a USB flash drive
- 3. Go to MENU→MAINTENANCE→UPGRADE (**Figures 6 and 7**).
- 4. Select the **"digicap.mav"** and click the UPGRADE button. The NVR will reboot after the upgrade. (Please refer to the firmware upgrade video on our YouTube channel <u>https://www.youtube.com/watch?v=vPk5K4RE22A</u>)
- 5. Go to MENU→SYSTEM CONFIGURATION→USERS and click the PENCIL (edit) icon next to the admin username (Figure 8).
- 6. Enter the new password and click OK (Figure 9).
- 7. After the password is changed, connect the cameras to the NVR





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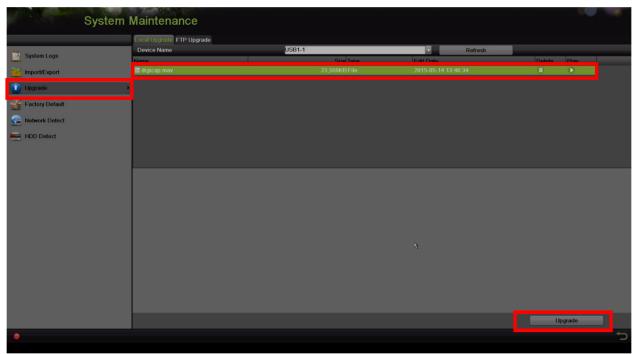


Figure 7. Upgrading the firmware

	No.	User Name	Level	User's MAC Address	Permission	Delete
General	1	admin	Admin	00:00:00:00:00	- /	-
🧕 Network						
HDD						
Live View						
Exceptions						
🦕 User						

Figure 8. Go to Users and edit the password



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No.	User Name		Level	User's MAC Address	Permission	Edit
1	admin		Admin	00:00:00:00:00:00	0	1
,		User Name Old Password Change Password Password Confirm User's MAC Address User's IP Address	Edit User admin	WEAK BDC 6 7 8 9 0		
		h	A S D F G a Z X C V E Space	HJKL NM ← Enter		

Figure 9. Enter the new password

**B.** Use the same method discussed for adding cameras to **DS-760xxNI-SE/(8P)** on **page 1**.

# 3. I have a DS-76xxNI-E1(E2) (v3.1 Build 150511) or DS-7716NI-SP/16 (v3.1.5 Build 150514) NVR. How do I connect cameras with firmware 5.3.0 to my NVR?

There are three approaches to this situation:

- **A.** Activate the NVR, and then connect the cameras to the built-in POE switch. The cameras will be activated by the NVR and the NVR's password will be assigned to the cameras. To activate the NVR, please see the **"New Secure Activation Process for DVRs/NVRs"** technical bulletin.
- **B.** The NVR and the cameras can be activated separately using the same password for the cameras and the NVR (see **"New Secure Activation Process for DVRs/NVRs"** and **"New Secure Activation Process for IP Cameras"** technical bulletins). After activating the devices, the cameras can be plugged in to the NVR and the Plug-n-Play feature will connect to the cameras. After exiting the menu, the feature will populate the cameras on the screen.
- C. The cameras and the NVR can be activated using different passwords (see "New Secure Activation Process for DVRs/NVRs" and "New Secure Activation Process for IP Cameras" technical bulletins). After activation, the cameras need to be manually added to the NVR using the method discussed on page 1.