



How to Use Third Party DDNS Services

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Summary

An internet connected device (camera, DVR, NVR) can be configured to be accessed from outside its local network. Using an IP address allocated by the internet provider, the end user is able to connect to this device. Internet services for non-enterprise solutions commonly provide a dynamic IP address to its users. The lack of a static IP address means the user must reconfigure their device connection settings every time a new IP address is allocated. Managing multiple devices will prove difficult if IP addresses are constantly changing. This issue can be solved by using a Dynamic Domain Name System (DDNS) Service. A fixed address is assigned by the DDNS service provider that can be used to connect to the desired device. The device itself must be configured with the DDNS credentials so that it may automatically update the service with the newly allocated IP address. Through this service, devices under dynamic IP addresses can maintain static addresses. Hikvision products support a number of third party DDNS services in addition to HiDDNS/Hik-Connect.

Supported Third Party DDNS Services

Third party DDNS service support for Hikvision products consists of both free and subscription based services:

1. No-IP (Free, optional subscription available).
2. DynDNS (Subscription required).

Limitations

Third party DDNS services may provide different features based on subscription tiers. For example, No-IP's free subscription requires confirmation of hostnames every 30 days in addition to a limit of 3 hostnames. Depending on the end user's setup and application, not all subscription tiers may be appropriate.

Discretion

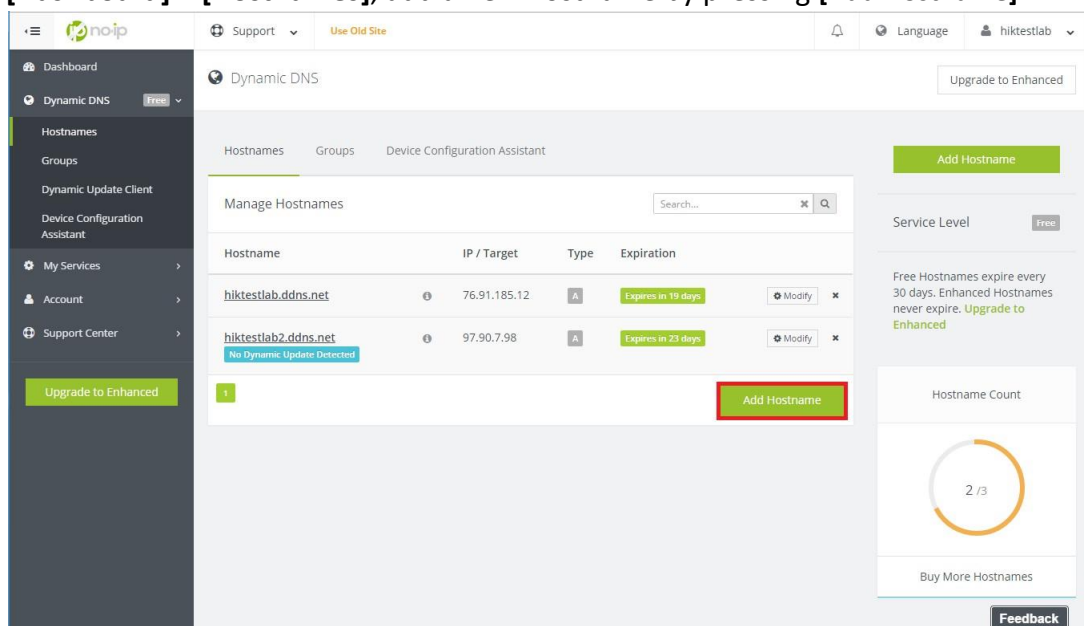
User interface may not be identical to the instructions shown below depending on the product, firmware version, and subscription tier. However, the information and settings required to setup third party DDNS services are similar across all supporting products.

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No-IP (www.noip.com)

1. *No-IP Hostname Setup*
 - a. Login or Sign up for an account at www.noip.com
 - b. Under **[Dashboard]** > **[Hostnames]**, add a new hostname by pressing **[Add Hostname]**.



- c. Create a *hostname* and select a *domain*. This will be address of your device after DDNS configuration. No-IP will automatically retrieve your IPv4 address. Create the hostname by pressing **[Add Hostname]**.

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d. The hostname and associated IP address will be listed on the account’s hostname dashboard.

2. *DDNS Setup for Cameras/NVRs Using Web Browser*

- a. Login to the device and proceed to the **[Configuration]** menu.
- b. DDNS settings can be found in **[Network] > [Basic Settings] > [DDNS]**.

c. Check the box for **[Enable DDNS]**, and fill out the provided fields:

DDNS Type: NO-IP

Server Address: *dynupdate.no-ip.com*

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Domain: configured hostname from part 1 (No-IP hostname setup)

User Name: Your No-IP username

Password/Confirm: Your No-IP password

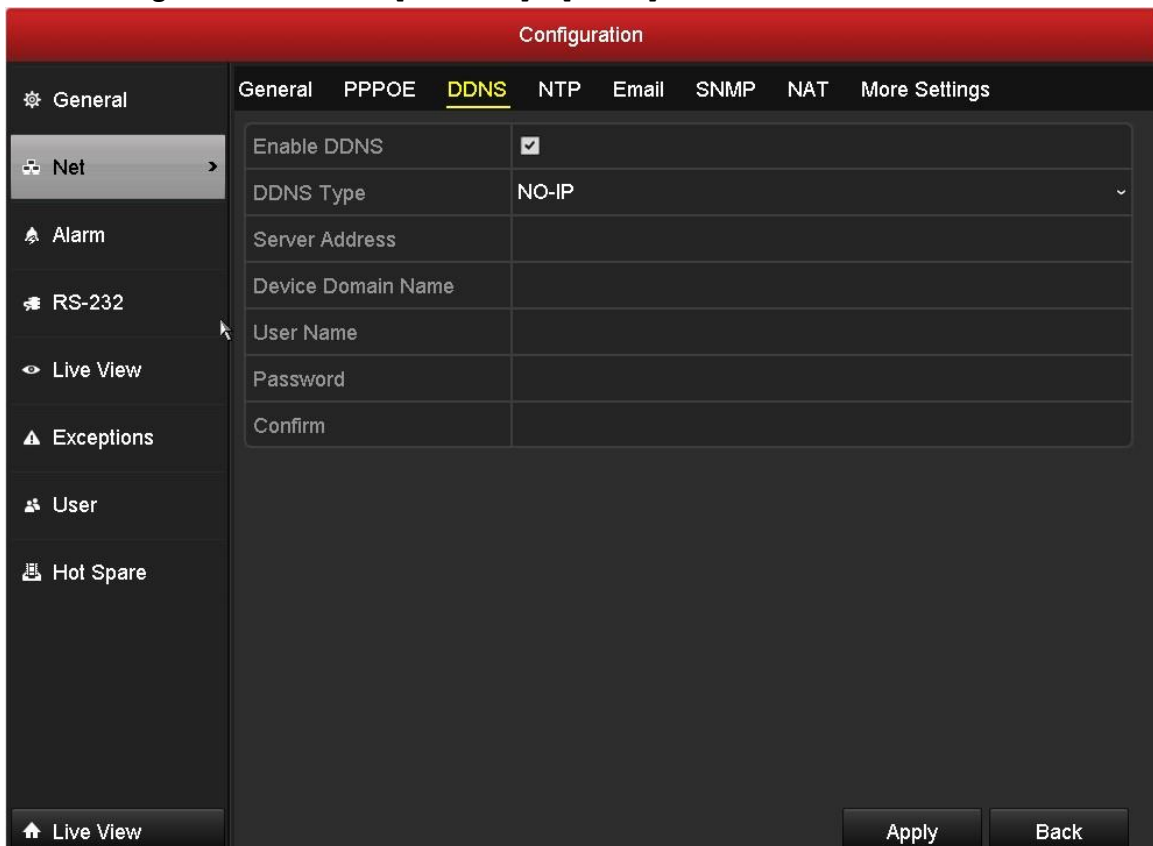
- d. Press **[Save]** to save your DDNS configuration.

Note: Update clients provided by third party DDNS services are not required to be installed. The device will update hostname information when a new IP address is allocated.

3. DDNS Setup for NVRs/DVRs using GUI

- a. Use a mouse to login or unlock the device.
- b. Access the device's system settings using **[Mouse Right-Click] > [Menu] > [System Configuration]**.

- c. DDNS settings can be found in **[Network] > [DDNS]**.



- d. Check the box for **[Enable DDNS]**, and fill out the provided fields:

DDNS Type: NO-IP

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Server Address: *dynupdate.no-ip.com*

Device Domain Name: *configured hostname from part 1 (No-IP hostname setup)*

User Name: *Your No-IP username*

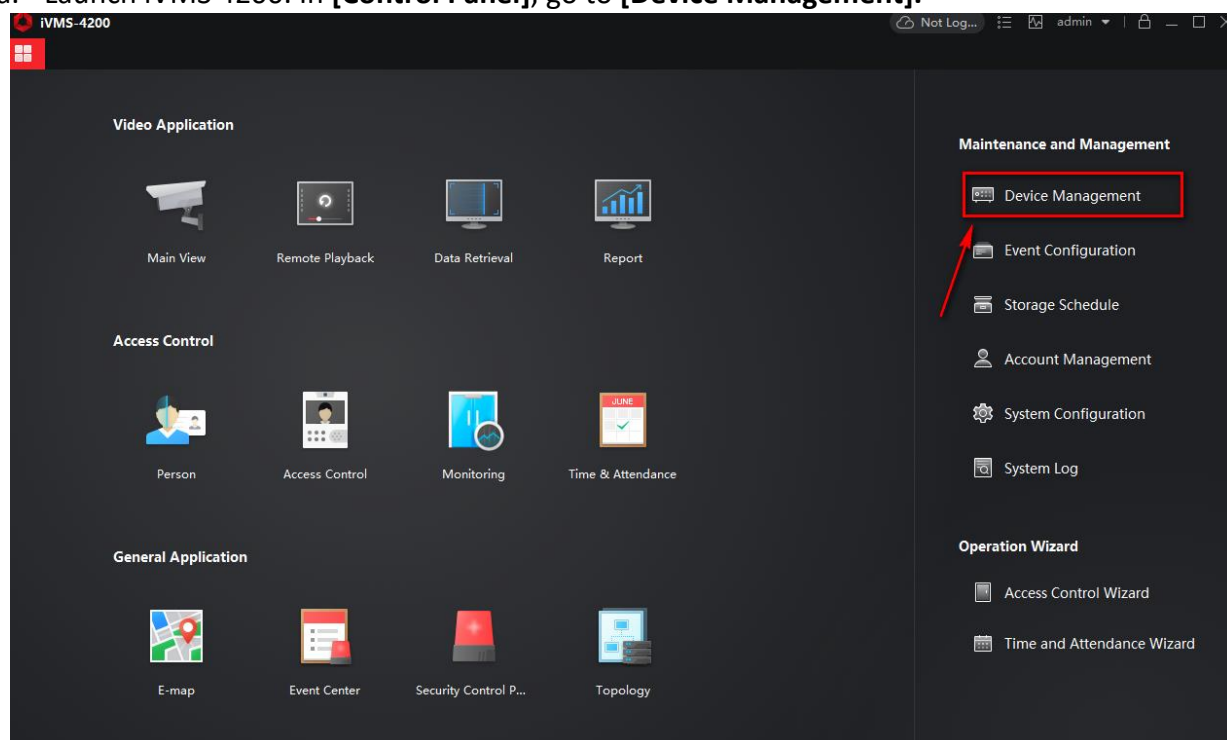
Password: *Your No-IP password*

- e. Press **[Apply]** to save your DDNS configuration.

Note: *Update clients provided by third party DDNS services are not required to be installed. The device will update hostname information when a new IP address is allocated.*

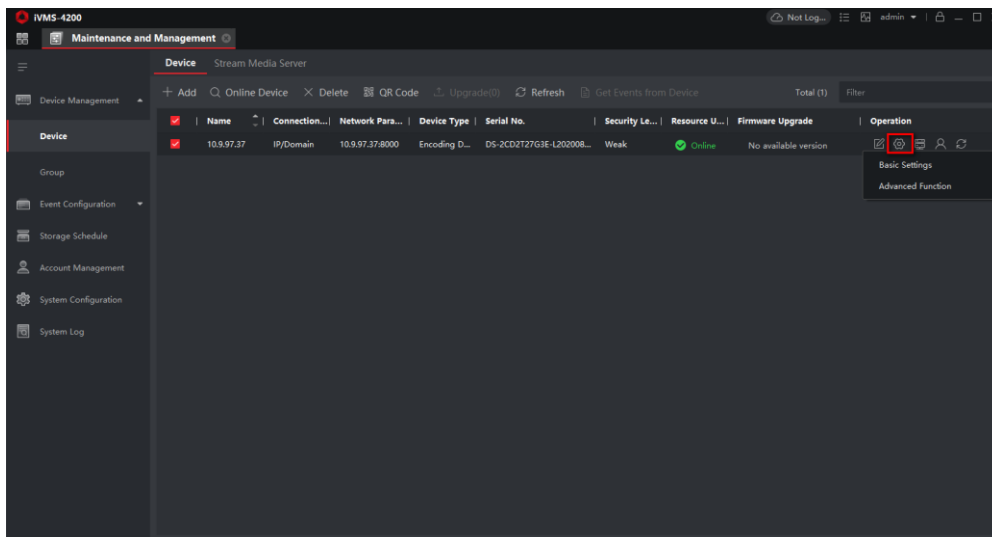
4. DDNS Setup for Cameras/NVRs/DVRs using iVMS 4200

- a. Launch iVMS 4200. In **[Control Panel]**, go to **[Device Management]**.

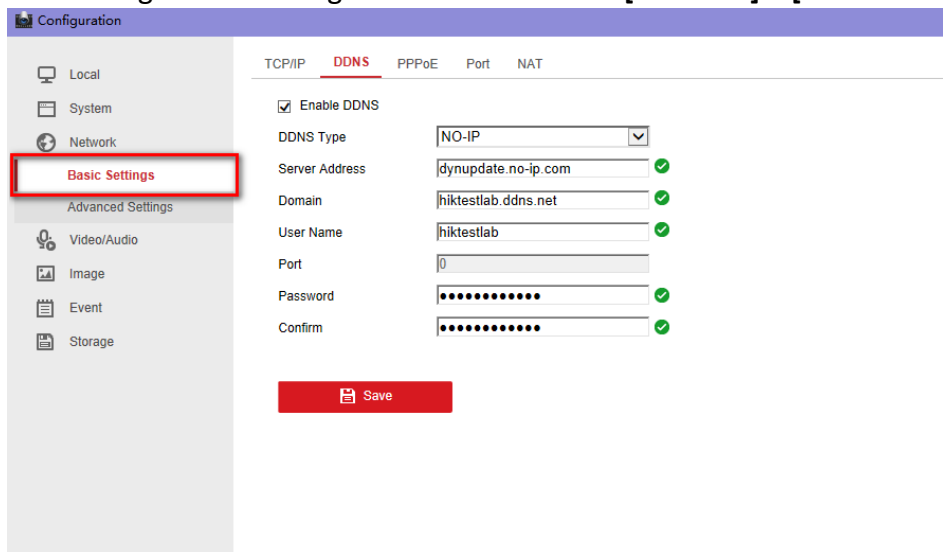


- b. In the **[Device]** tab, select your device and go to **[Remote Configuration]>[Basic Settings]**.

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c. DDNS configuration settings can be found under **[Network] > [Basic Settings] > [DDNS]**.



d. Check the box for **[Enable DDNS]**, and fill out the provided fields:

DDNS Type: NO-IP

Server Address: *dynupdate.no-ip.com*

Domain: *configured hostname from part 1 (No-IP hostname setup)*

User Name: *Your No-IP username*

Password/Confirm: *Your No-IP password*

e. Press **[Save]** to save your DDNS configuration.

Note: Update clients provided by third party DDNS services are not required to be installed. The device will update hostname information when a new IP address is allocated.

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DynDNS (www.dyn.com)

1. DynDNS Hostname Setup

- a. Sign up or Login to your DynDNS account.
- b. Go to **[My Services]> [DynDNS Pro]** to create a new hostname.

The screenshot shows the Dyn.com user interface. At the top, there is a navigation bar with the Dyn logo, a search bar, and user information including 'Welcome rodrigokim' and links for 'My Services', 'My Cart', and 'Log Out'. Below the navigation bar, there are several promotional banners and a central message box. The message box contains the text: 'It looks like you have purchased Pro but haven't created any hostnames. Let's get you set up:'. Below this message box, there are three columns of menu items: 'My Services', 'Billing', and 'Account Settings'. The 'DynDNS Pro' option under 'My Services' is highlighted with a red box.

- c. Press **[+ New Hostname]** to create a new hostname.

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The screenshot shows the Dyn website dashboard for a user named 'rodrigokim'. The main navigation bar includes 'Back to Dyn', 'Welcome rodrigokim', 'My Services', 'My Cart', and 'Log Out'. A search bar is also present. A yellow notification banner at the top states: 'You have not generated an updater client key! Please generate a key for use with update clients to help keep your account credentials secure.' Below this, the 'My Account' section is visible, with a sub-section for 'DynDNS Pro and Host Services'. A table titled 'DYNDNS HOSTNAMES' lists one host: 'hiktestlab.dyndns.org' with service 'Host' and IP '76.91.185.12'. A '+ Add New Hostname' button is highlighted with a red box. Other sections include 'SINGLE PACKAGE OF PRO' (DynDNS Pro, expires Dec 20, 2016) and 'HOSTNAMES AVAILABLE' (29 remaining).

- d. Choose a *hostname* and *domain*. *Service Type* should be set to *Host with IP address*. Your IP address will automatically be retrieved by this form.

The form for adding a new hostname is shown. It includes the following fields and options:

- Hostname:** hiktestlab . dyndns.org
- Wildcard:** create "*.host.dyndns-yourdomain.com" alias (for example to use same settings for www.host.dyndns-yourdomain.com)
- Service Type:**
 - Host with IP address
 - WebHop Redirect (URL forwarding service)
 - Offline Hostname
- IP Address:** 70.211.131.127
Your current location's IP address is 70.211.131.127
- IPv6 Address (optional):** [Empty field]
- TTL value is 60 seconds.** [Edit TTL...](#)
- Mail Routing:** I have mail server with another name and would like to add MX hostname...

An **Activate** button is located at the bottom right of the form.

- e. Press **[Activate]** to create the hostname.
f. Your new hostname will be listed on the DynDNS Pro dashboard.

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The screenshot shows the Dyn website dashboard for user 'rodrigokim'. At the top, there is a navigation bar with 'Back to Dyn', 'Welcome rodrigokim', 'My Services', 'My Cart', and 'Log Out'. A search bar is also present. Below the navigation bar, a yellow notification banner states: 'You have not generated an updater client key! Please generate a key for use with update clients to help keep your account credentials secure. dismiss'. The main content area is divided into 'My Account' and 'DynDNS Pro and Host Services'. The 'My Account' sidebar includes links for 'My Services', 'My Cart', and 'Billing'. The 'DynDNS Pro and Host Services' section shows a notification: 'Hostname hiktestlab.dyndns.org updated.' Below this, a blue box prompts the user to download the 'Linksys Router Setup App'. A table titled 'DYNDNS HOSTNAMES' contains one entry: 'hiktestlab.dyndns.org' with service 'Host', IP '70.211.131.127', and last updated 'Dec. 14, 2016 11:19 AM'. Below the table, there are links for 'Add External WebHop' and 'Host Update Logs'. A 'SINGLE PACKAGE OF PRO' section shows 'DynDNS Pro (cancel) (renew now)' with an expiration date of 'December 20, 2016'. A 'HOSTNAMES AVAILABLE' section indicates that the user is using 1 of 30 hosts and has 29 remaining.

2. DDNS Setup for Cameras/NVRs Using Web Browser

- Log in to the device and proceed to the **[Configuration]** menu.
- DDNS settings can be found in **[Network] > [Basic Settings] > [DDNS]**.

The screenshot shows the Hikvision web interface. The top navigation bar includes 'Live View', 'Playback', 'Picture', and 'Configuration'. The 'Configuration' menu is selected. On the left, a sidebar shows 'Local', 'System', and 'Network' menus, with 'Basic Settings' selected under 'Network'. The main content area shows the 'DDNS' configuration page. The 'Enable DDNS' checkbox is checked. The 'DDNS Type' is set to 'DynDNS'. The 'Server Address' is 'members.dyndns.org', the 'Domain' is 'hiktestlab.dyndns.org', the 'User Name' is 'rodrigokim', and the 'Port' is '1'. The 'Password' and 'Confirm' fields are masked with dots. A red 'Save' button is at the bottom.

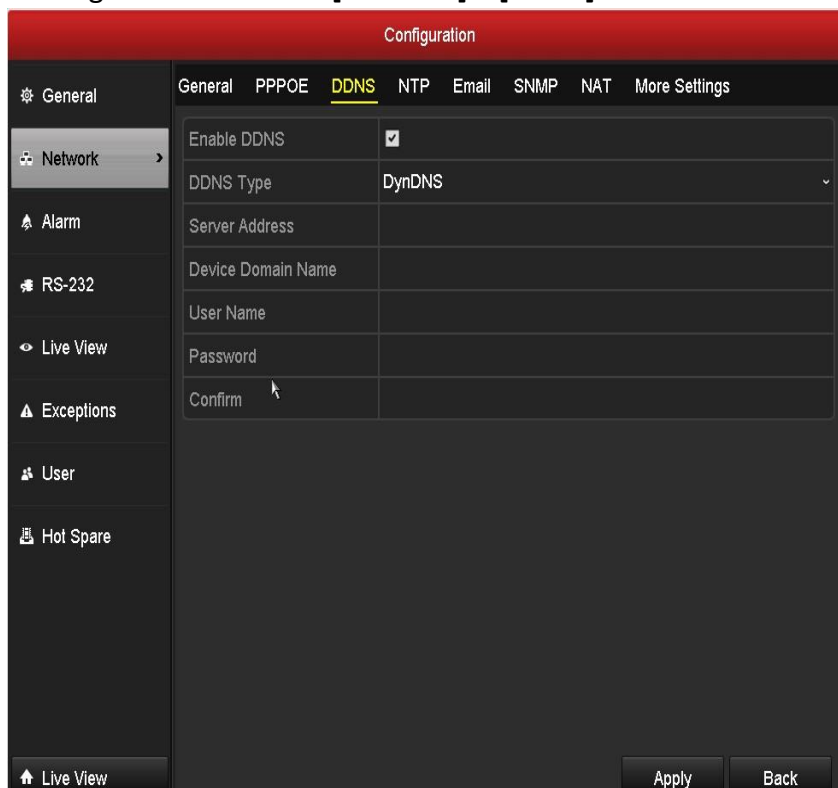
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- c. Check the box for **[Enable DDNS]**, and fill out the provided fields:
DDNS Type: DynDNS
Server Address: *members.dyndns.org*
Device Domain Name: *configured hostname from part 1 (DynDNS hostname setup)*
User Name: *Your DynDNS username*
Password: *Your DynDNS password*
- d. Press **[Save]** to save your DDNS configuration.

Note: Update clients provided by third party DDNS services are not required to be installed. The device will update hostname information when a new IP address is allocated.

3. DDNS Setup for NVRs/DVRs using GUI

- a. Use a mouse to login or unlock the device.
- b. Access the device’s system settings using **[Mouse Right-Click] > [Menu] > [System Configuration]**.
- c. DDNS settings can be found in **[Network] > [DDNS]**.



- d. Check the box for **[Enable DDNS]**, and fill out the provided fields:
DDNS Type: DynDNS
Server Address: *members.dyndns.org*
Device Domain Name: *configured hostname from part 1 (DynDNS hostname setup)*

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User Name: *Your DynDNS username*

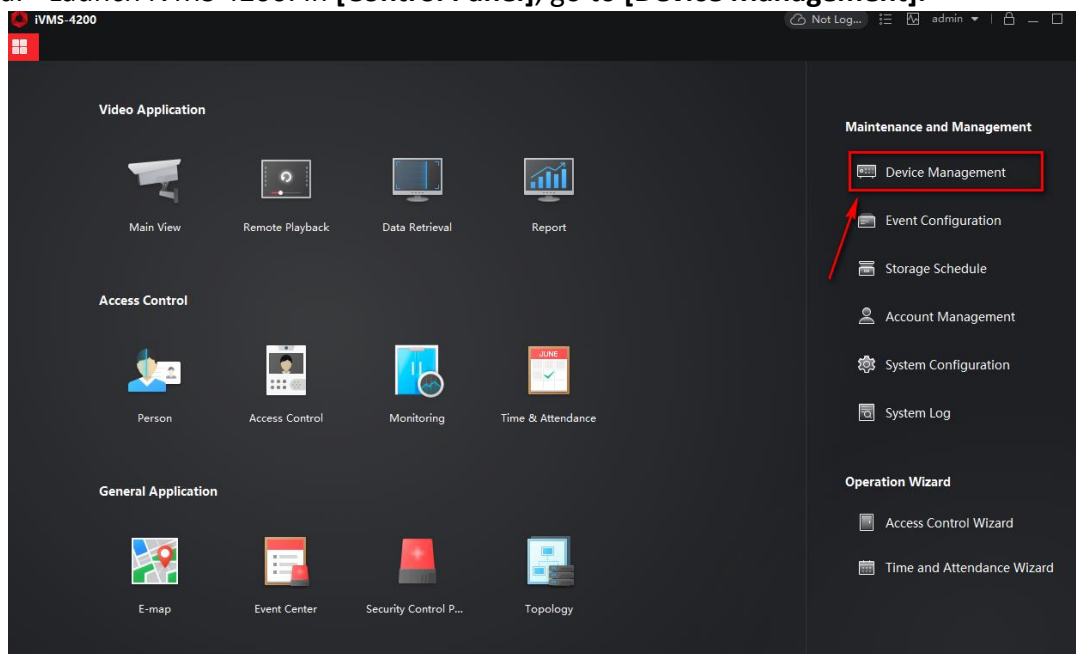
Password: *Your DynDNS password*

- e. Press **[Apply]** to save your DDNS configuration.

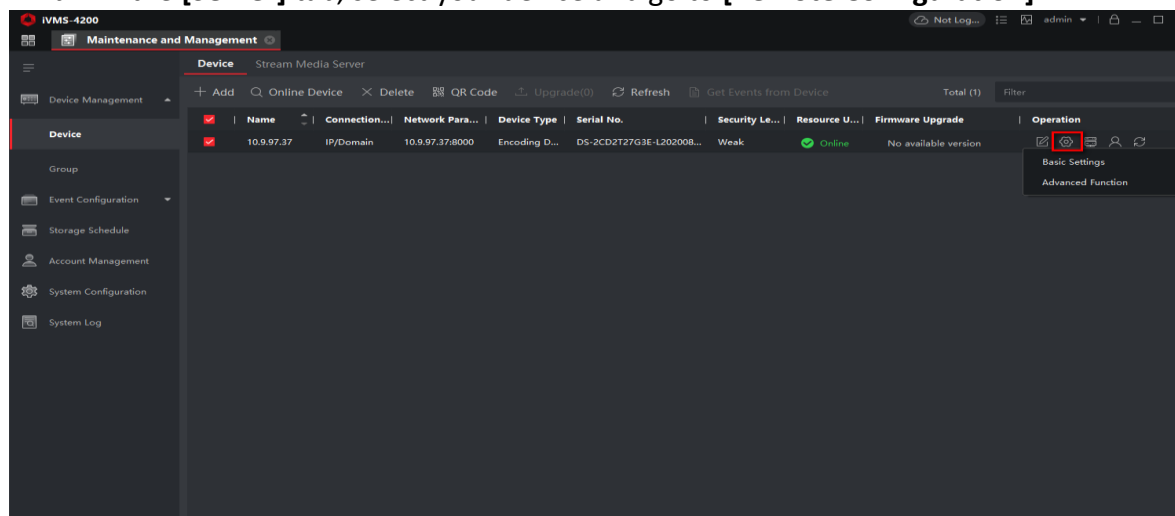
Note: Update clients provided by third party DDNS services are not required to be installed. The device will update hostname information when a new IP address is allocated.

4. DDNS Setup for Cameras/NVRs/DVRs using iVMS 4200

- a. Launch iVMS 4200. In **[Control Panel]**, go to **[Device Management]**.



- b. In the **[Server]** tab, select your device and go to **[Remote Configuration]**.



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- c. DDNS configuration settings can be found under **[Network] > [DDNS]**.

The screenshot shows the DDNS configuration interface. On the left is a navigation menu with 'Network' selected and 'Basic Settings' highlighted. The main area has tabs for 'TCP/IP', 'DDNS', 'PPPoE', 'Port', and 'NAT'. Under the 'DDNS' tab, the 'Enable DDNS' checkbox is checked. The 'DDNS Type' dropdown is set to 'DynDNS'. The 'Server Address' text box contains 'members.dyndns.org'. The 'Domain' text box contains 'hiktestlab.dyndns.org' and has a green checkmark to its right. The 'User Name' text box contains 'rodrigokim' and has a green checkmark. The 'Port' text box contains '0'. The 'Password' and 'Confirm' text boxes are filled with dots and each has a green checkmark. A red 'Save' button is located at the bottom center of the configuration area.

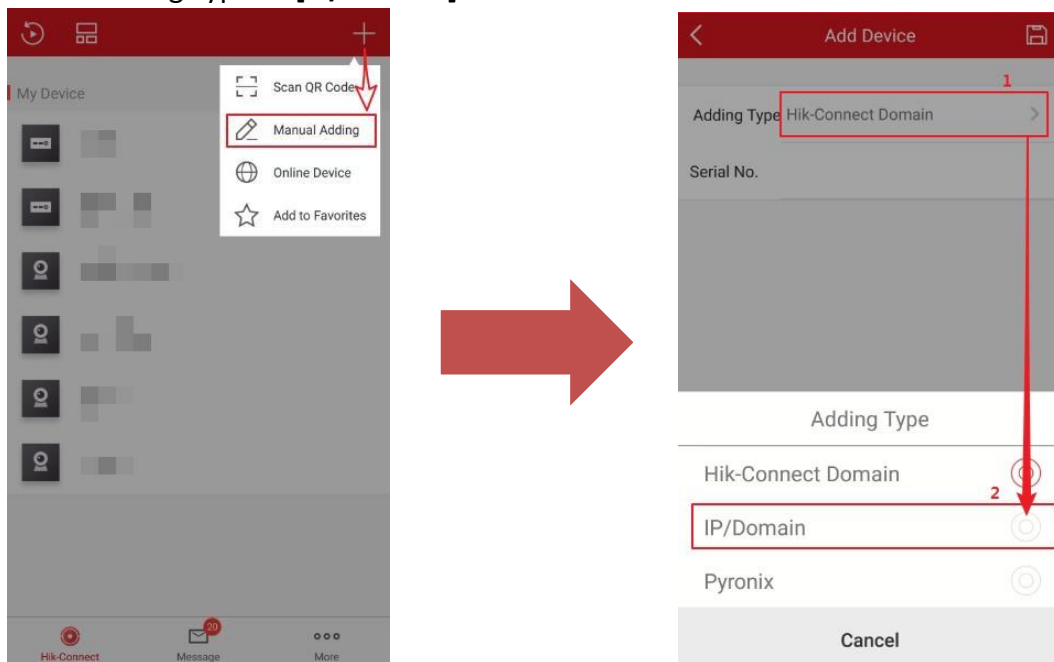
- d. Check the box for **[Enable DDNS]**, and fill out the provided fields:
DDNS Type: DynDNS
Server Address: *members.dyndns.org*
Domain: *configured hostname from part 1 (DynDNS hostname setup)*
User Name: *Your DynDNS username*
Password/Confirm: *Your DynDNS password*
- e. Press **[Save]** to save your DDNS configuration.

Note: Update clients provided by third party DDNS services are not required to be installed. The device will update hostname information when a new IP address is allocated.

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Adding DDNS configured devices to Hik-Connect

1. Launch Hik-Connect from your mobile device.
2. Tap Adding icon [+] on top right and select **[Manual Adding]** 3. Select Adding Type as **[IP/Domain]**



4. Fill out the following information regarding your DDNS configured device:
 - Alias:** Set a nickname for your device
 - Address:** Hostname created from your DDNS account.
 - Port:** Default value is 8000. Change this value if your hostname requires a different port number. **User**
 - Name:** Username for device
 - Password:** Password for device
5. Click Save on left top and Press **[Start Live View]** to view your device.

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Add Device

Adding Type: IP/Domain

Alias: New Device 01

Address:

Port: 8000

User Name:

Device Password:

Camera No.: 1



Device Information

Adding Type: IP/Domain

Alias: DDNS TEST

Address: hiktestlab.dyndns.org

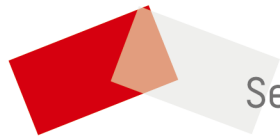
Port: 8000

User Name: admin

Device Password: *****

Camera No.: 2

Start Live View



See Far, Go Further