



## **How to Use Third Party DDNS Services**

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## Summary

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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

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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

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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

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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.

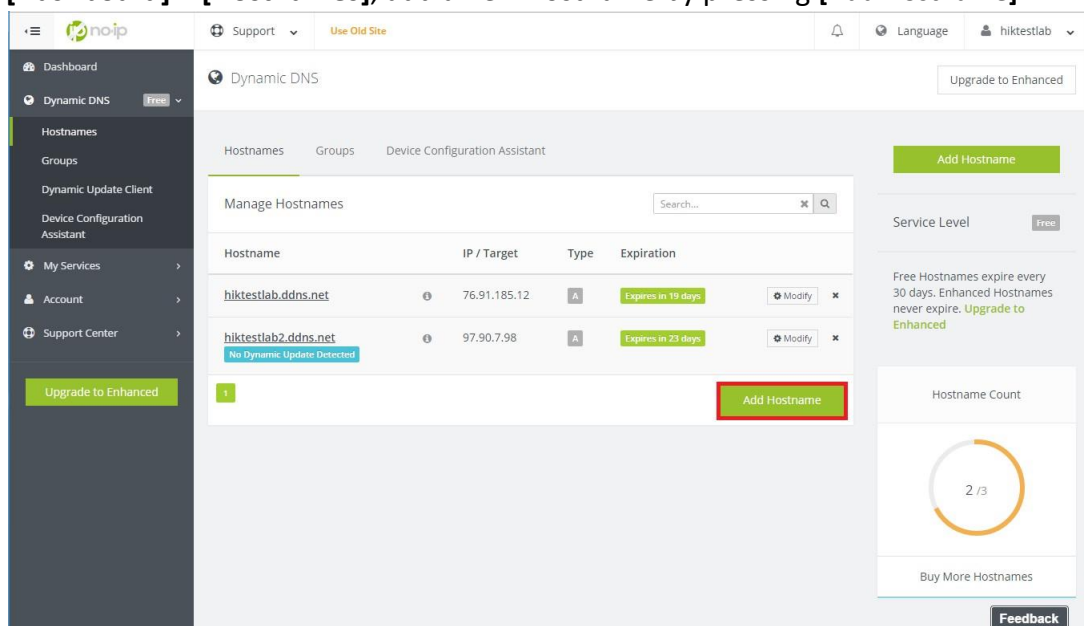
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## How to Use Third Party DDNS Services

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No-IP ([www.noip.com](http://www.noip.com))

1. *No-IP Hostname Setup*
  - a. Login or Sign up for an account at [www.noip.com](http://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

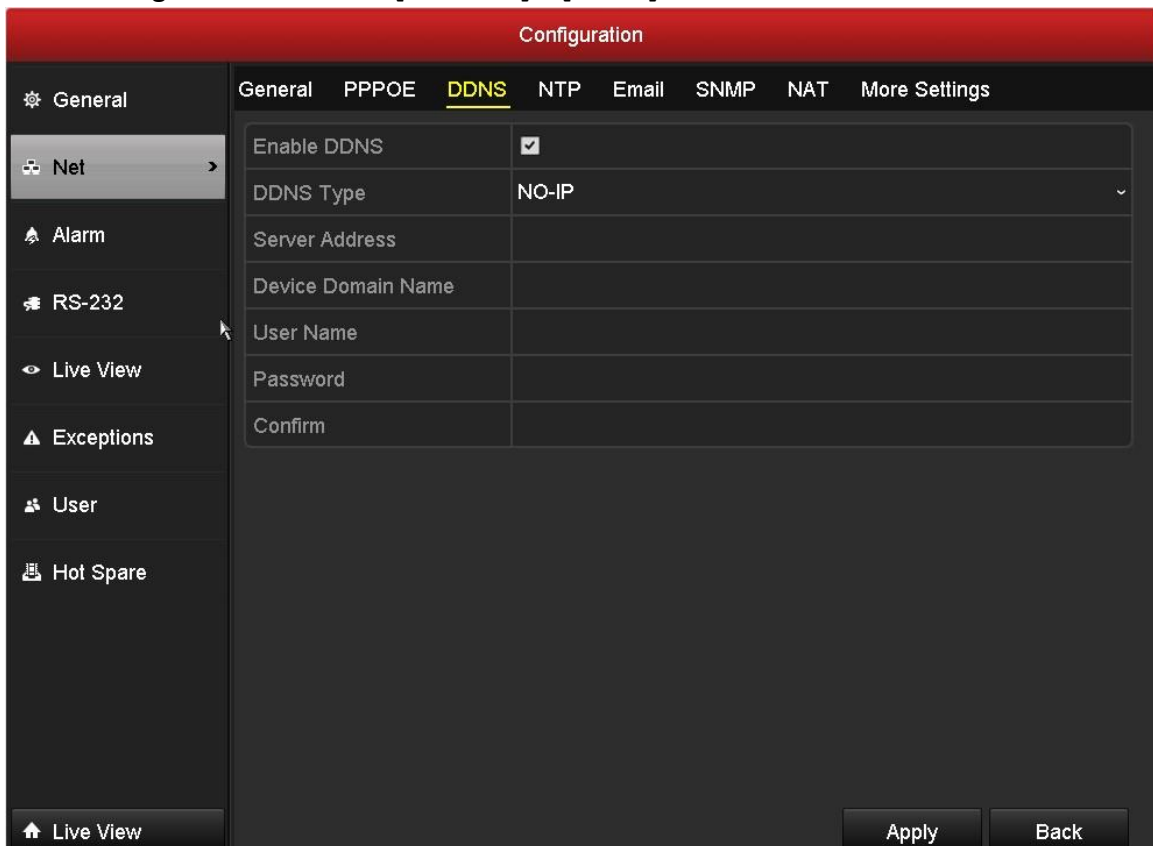
- d. Press **[Save]** to save your DDNS configuration.

**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*

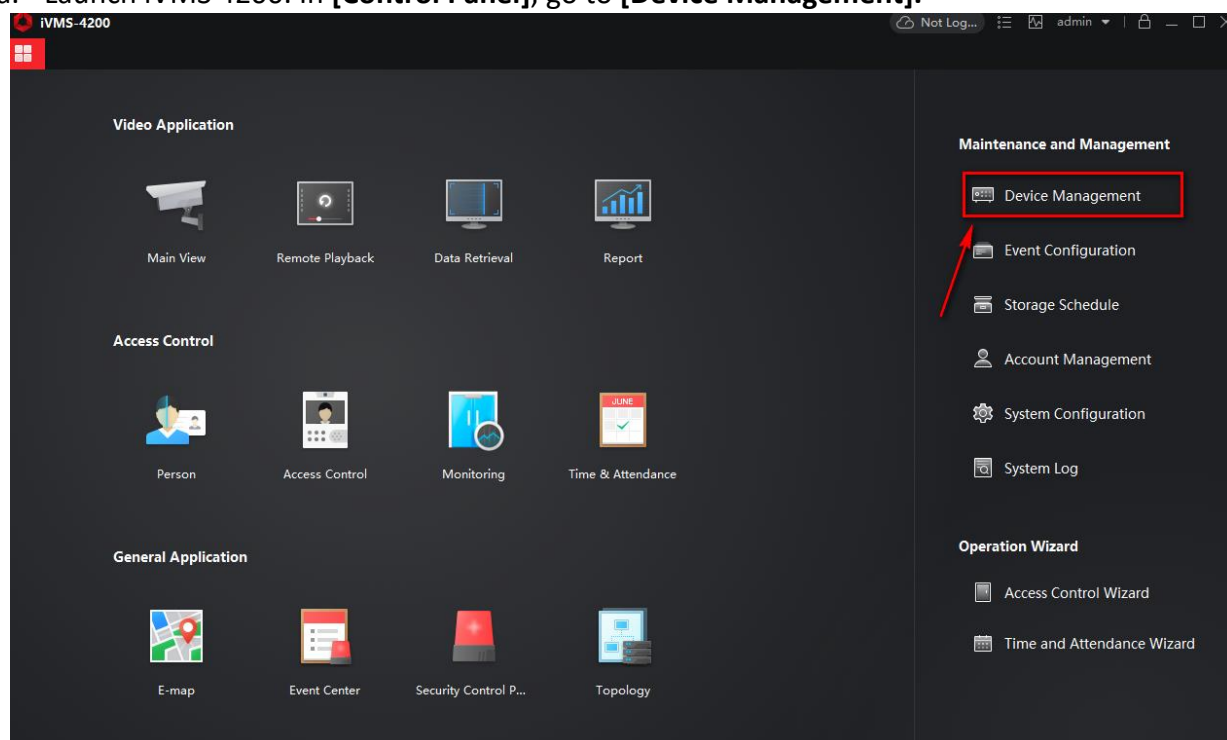
**Password:** *Your No-IP password*

- 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.*

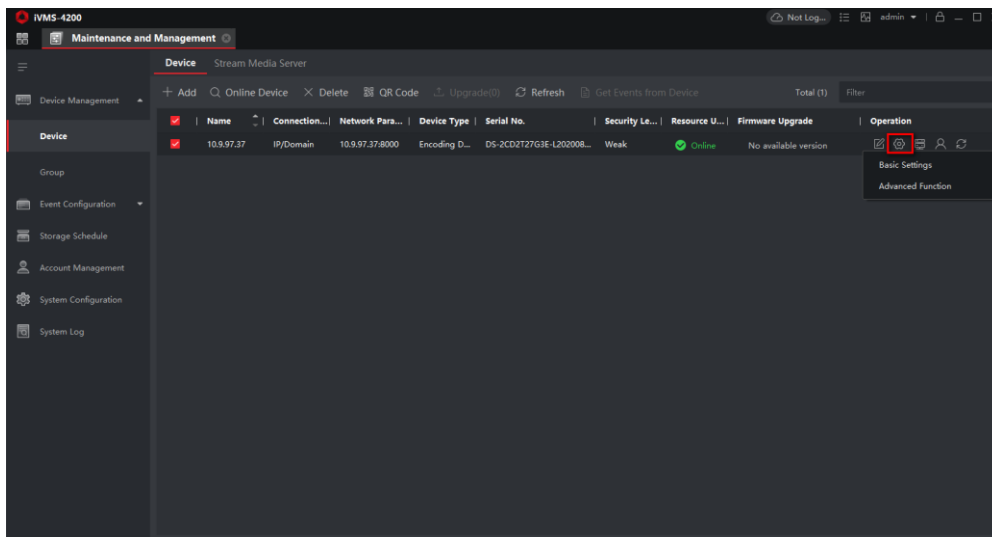
#### 4. DDNS Setup for Cameras/NVRs/DVRs using iVMS 4200

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

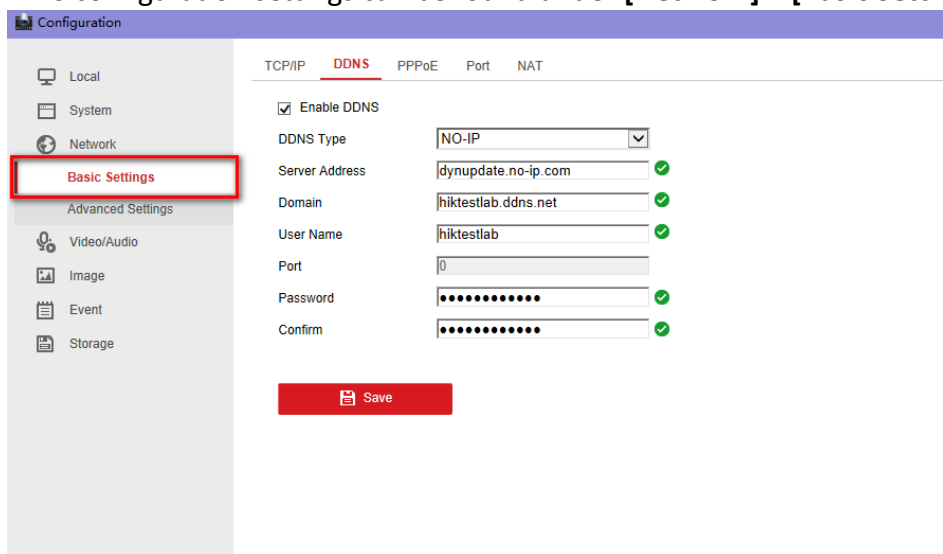


- b. In the **[Device]** tab, select your device and go to **[Remote Configuration]>[Basic Settings]**.

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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](http://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.

- 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 hostname: 'hiktestlab.dyndns.org' with service type 'Host' and IP address '76.91.185.12'. A '+ Add New Hostname' button is highlighted with a red box. Other sections include 'SINGLE PACKAGE OF PRO' showing 'DynDNS Pro' with an expiration date of December 20, 2016, and 'HOSTNAMES AVAILABLE' indicating that 29 hostnames remain out of a total of 30.

- 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 screenshot shows the 'Add New Hostname' form. The 'Hostname' field contains 'hiktestlab' and the domain is set to 'dyndns.org'. The 'Wildcard' checkbox is unchecked. The 'Service Type' is set to 'Host with IP address'. The 'IP Address' field contains '70.211.131.127', with a link below it stating 'Your current location's IP address is 70.211.131.127'. There is an empty field for 'IPv6 Address (optional)'. The 'TTL value is 60 seconds' and a link to 'Edit TTL...'. The 'Mail Routing' checkbox is unchecked. 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. At the top, there is a navigation bar with the Dyn logo, a search bar, and links for 'Back to Dyn', 'Welcome rodrigokim', 'My Services', 'My Cart', and 'Log Out'. 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]'. Below this, the 'My Account' section is visible, with a sidebar menu containing options like 'My Services', 'DynDNS Pro/Hosts', 'Managed DNS Express', 'Domain names, DNS hosting, Dyn Email services', 'Health Check', 'Internet Guide', 'Email Delivery Express', 'Renew Services', 'Auto Renew Settings', 'Sync Expirations', 'Tips on Getting Started', 'Account Settings', and 'Billing'. The main content area is titled 'DynDNS Pro and Host Services' and includes a 'My Services' button. A green notification says 'Hostname hiktestlab.dyndns.org updated.'. A blue box prompts the user to 'Download the Linksys Router Setup App' if they've created a hostname for a Linksys Router. Below this is a table of 'DYNDNS HOSTNAMES' with one entry: 'hiktestlab.dyndns.org' under the 'HOSTNAME' column, 'Host' under 'SERVICE', '70.211.131.127' under 'DETAILS', and 'Dec. 14, 2016 11:19 AM' under 'LAST UPDATED'. There are also sections for 'SINGLE PACKAGE OF PRO' (showing 'DynDNS Pro (cancel) (renew now)' with an expiration date of 'December 20, 2016') and 'HOSTNAMES AVAILABLE' (showing 'You are using 1 of the 30 hosts currently available in your account' and 'You have 29 hostnames remaining').

## 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]**.

The screenshot shows the Hikvision web interface. At the top, there is a navigation bar with the Hikvision logo and tabs for 'Live View', 'Playback', 'Picture', and 'Configuration'. The 'Configuration' tab is selected. On the left, there is a sidebar menu with options for 'Local', 'System', 'Network', 'Basic Settings', 'Advanced Settings', 'Video/Audio', 'Image', 'Event', and 'Storage'. The 'Basic Settings' option is selected. The main content area is titled 'DDNS' and includes a 'TCP/IP' tab. The 'DDNS' tab is active, showing a 'Enable DDNS' checkbox that is checked. Below this, there are several input fields: 'DDNS Type' (set to 'DynDNS'), 'Server Address' (set to 'members.dyndns.org'), 'Domain' (set to 'hiktestlab.dyndns.org'), 'User Name' (set to 'rodrigokim'), 'Port' (set to '1'), 'Password' (masked with '\*\*\*\*\*'), and 'Confirm' (masked with '\*\*\*\*\*'). At the bottom, there is a red 'Save' button.

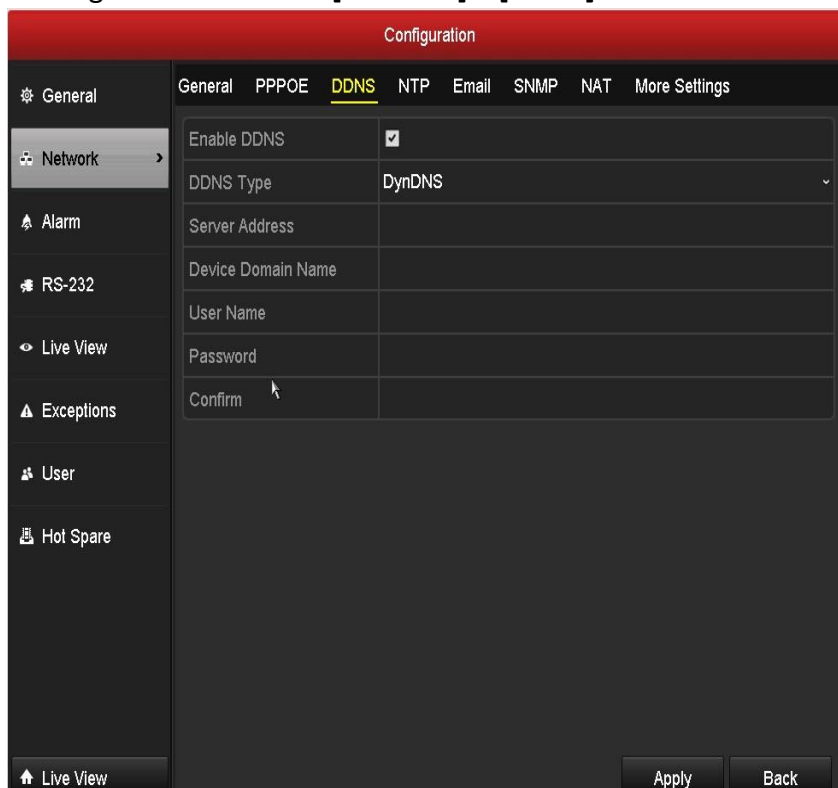
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- c. Check the box for **[Enable DDNS]**, and fill out the provided fields:  
**DDNS Type:** DynDNS  
**Server Address:** *members.dyndns.org*  
**Device Domain Name:** *configured hostname from part 1 (DynDNS hostname setup)*  
**User Name:** *Your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

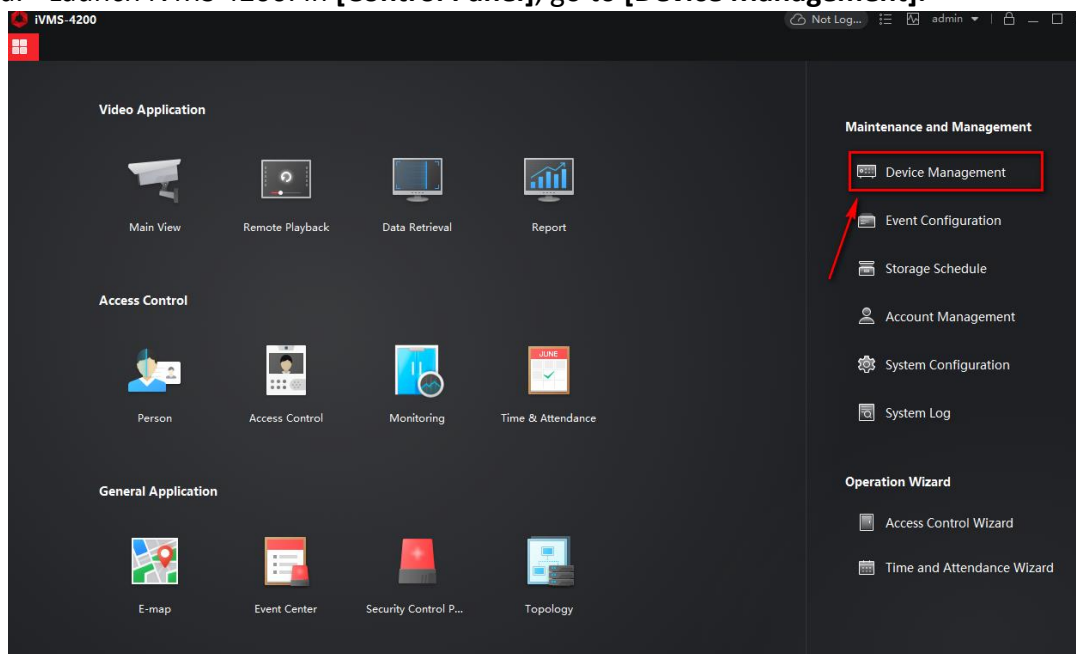
**Password:** *Your DynDNS password*

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

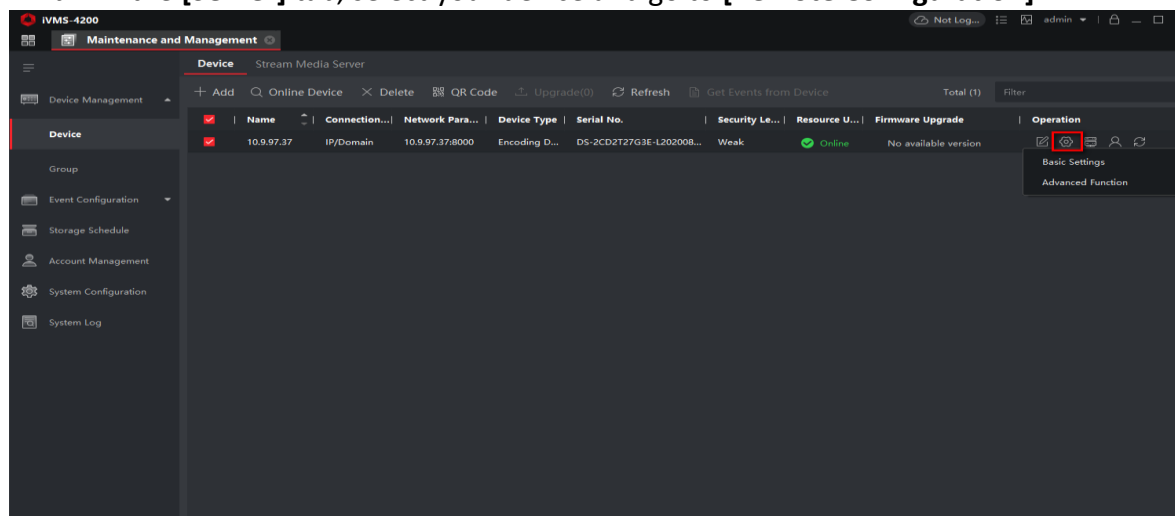
**Note:** Update clients provided by third party DDNS services are not required to be installed. The device will update hostname information when a new IP address is allocated.

#### 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 page. On the left is a navigation menu with 'Local', 'System', 'Network', 'Basic Settings', 'Advanced Settings', 'Video/Audio', 'Image', 'Event', and 'Storage'. The 'Network' section is expanded to show 'Basic Settings'. The main content area has tabs for 'TCP/IP', 'DDNS', 'PPPoE', 'Port', and 'NAT'. The 'DDNS' tab is active. It contains a checked 'Enable DDNS' checkbox, a 'DDNS Type' dropdown set to 'DynDNS', a 'Server Address' text box with 'members.dyndns.org', a 'Domain' text box with 'hiktestlab.dyndns.org' and a green checkmark, a 'User Name' text box with 'rodrigokim' and a green checkmark, a 'Port' text box with '0', a 'Password' text box with dots and a green checkmark, and a 'Confirm' text box with dots and a green checkmark. A red 'Save' button is at the bottom.

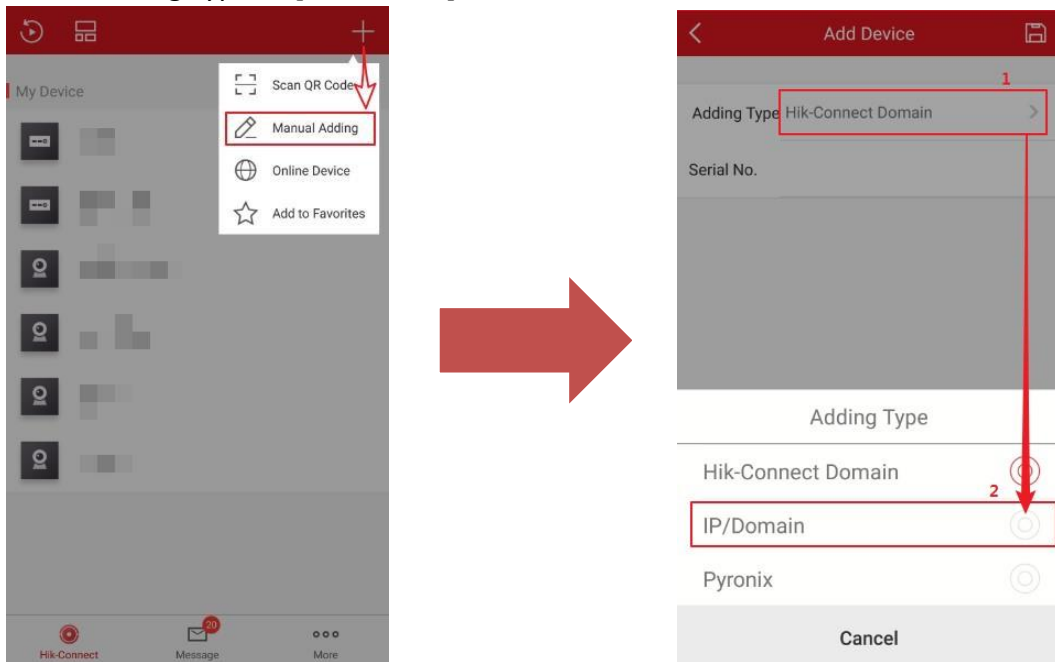
- d. Check the box for **[Enable DDNS]**, and fill out the provided fields:  
**DDNS Type:** DynDNS  
**Server Address:** *members.dyndns.org*  
**Domain:** *configured hostname from part 1 (DynDNS hostname setup)*  
**User Name:** *Your DynDNS username*  
**Password/Confirm:** *Your DynDNS password*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

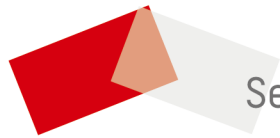
Port: 8000

User Name: admin

Device Password: \*\*\*\*\*

Camera No.: 2

Start Live View



See Far, Go Further