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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.

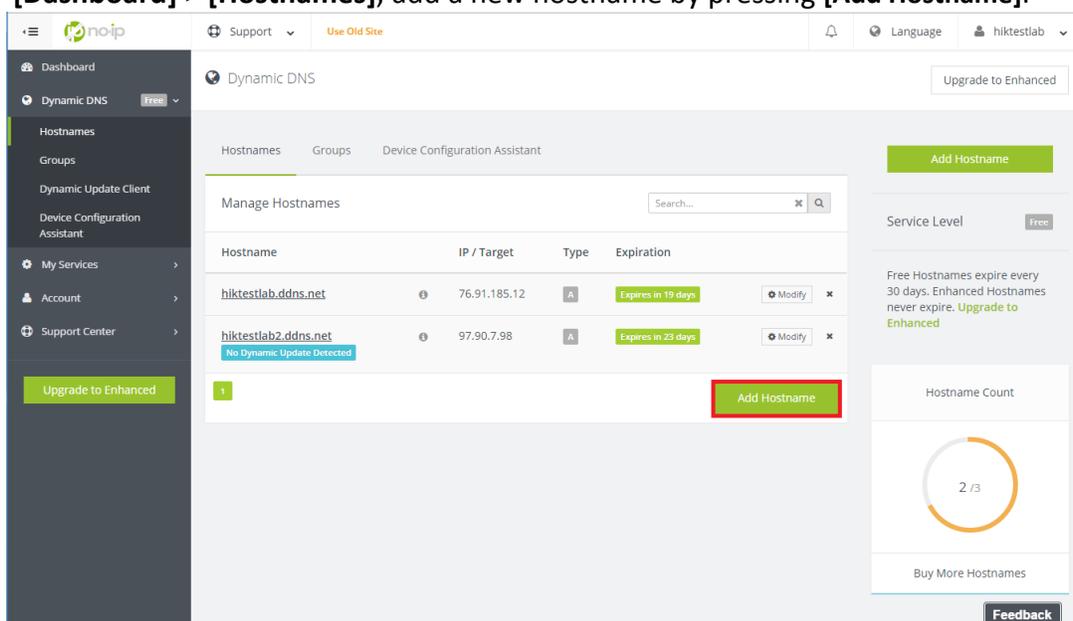
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How to Use Third Party DDNS Services

No-IP (www.noip.com)

1. No-IP Hostname Setup

- Log in or Sign up for an account at www.noip.com
- Under **[Dashboard]** > **[Hostnames]**, add a new hostname by pressing **[Add Hostname]**.



- 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]**.

The screenshot shows the 'Add Hostname' form. It has fields for 'Hostname' (containing 'hiktestlab'), 'Domain' (a dropdown menu showing 'ddns.net'), and 'Record Type' (a dropdown menu showing 'A'). There is a checkbox for 'Enable Wildcard' and a note that says 'Upgrade to Enhanced to enable wildcard hostnames.' Below these is a field for 'IPv4 Address' containing '10.95.235.27', which is highlighted with a red box. At the bottom, there are 'Cancel' and 'Add Hostname' buttons.

- The hostname and associated IP address will be listed on the account's hostname dashboard.

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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. The top navigation bar includes 'Live View', 'Playback', 'Picture', and 'Configuration'. The 'Configuration' menu is expanded to show 'Basic Settings' and 'Advanced Settings'. Under 'Basic Settings', there are icons for 'Local', 'System', 'Network', 'Video/Audio', 'Image', 'Event', and 'Storage'. The 'Network' section is selected, and the 'DDNS' sub-tab is active. The 'DDNS' configuration fields are: 'Enable DDNS' (checked), 'DDNS Type' (NO-IP), 'Server Address' (dynupdate.no-ip.com), 'Domain' (hiktestlab.ddns.net), 'User Name' (hiktestlab), 'Port' (1), 'Password' (masked), and 'Confirm' (masked). A red 'Save' button is located at the bottom of the configuration area.

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

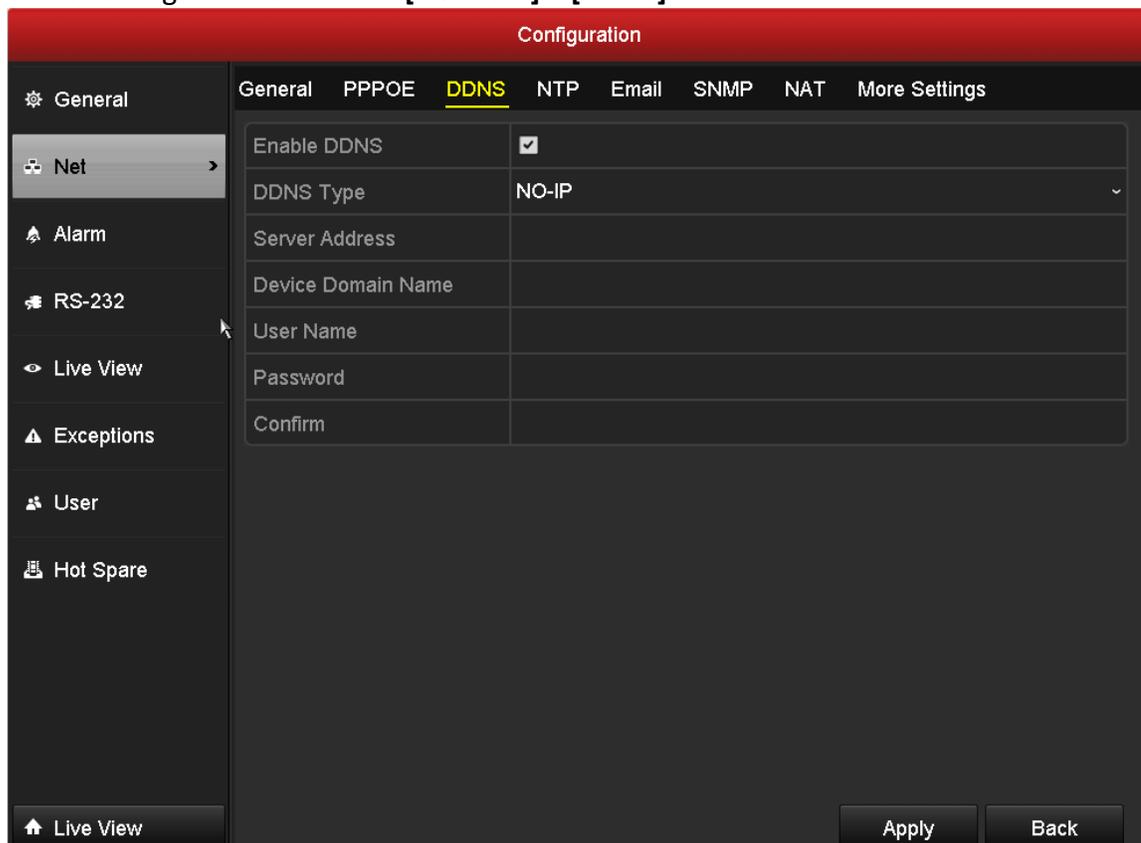
Note: Update clients provided by third party DDNS services are not required to be installed. The device will update hostname information when a new IP address is allocated.

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]**.

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



The screenshot shows the 'Configuration' window with the 'DDNS' tab selected. The 'Enable DDNS' checkbox is checked. The 'DDNS Type' dropdown is set to 'NO-IP'. The other fields (Server Address, Device Domain Name, User Name, Password, Confirm) are empty. The 'Apply' and 'Back' buttons are visible at the bottom right.

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

DDNS Type: NO-IP

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*

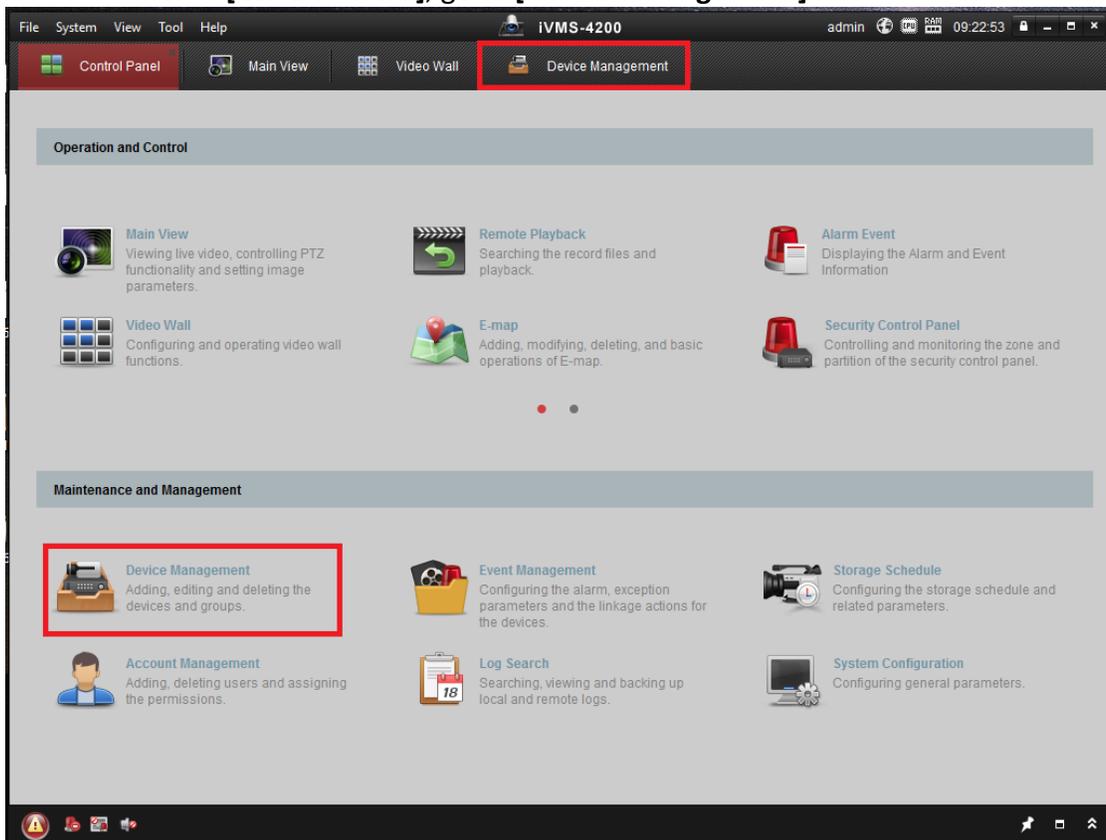
- e. Press **[Apply]** to save your DDNS configuration.

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.

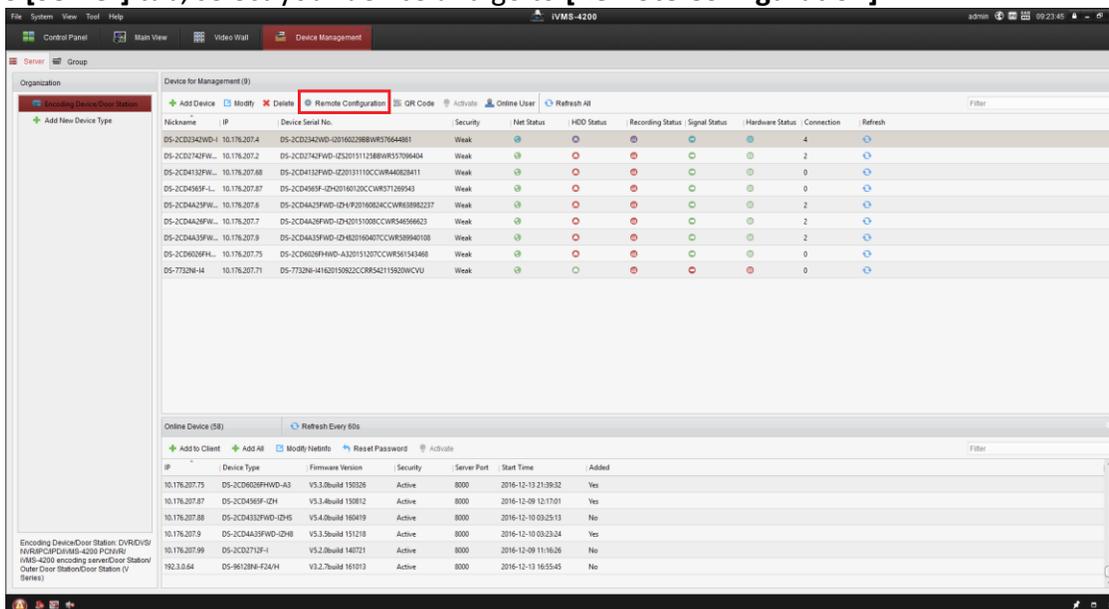
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4. DDNS Setup for Cameras/NVRs/DVRs using iVMS 4200

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

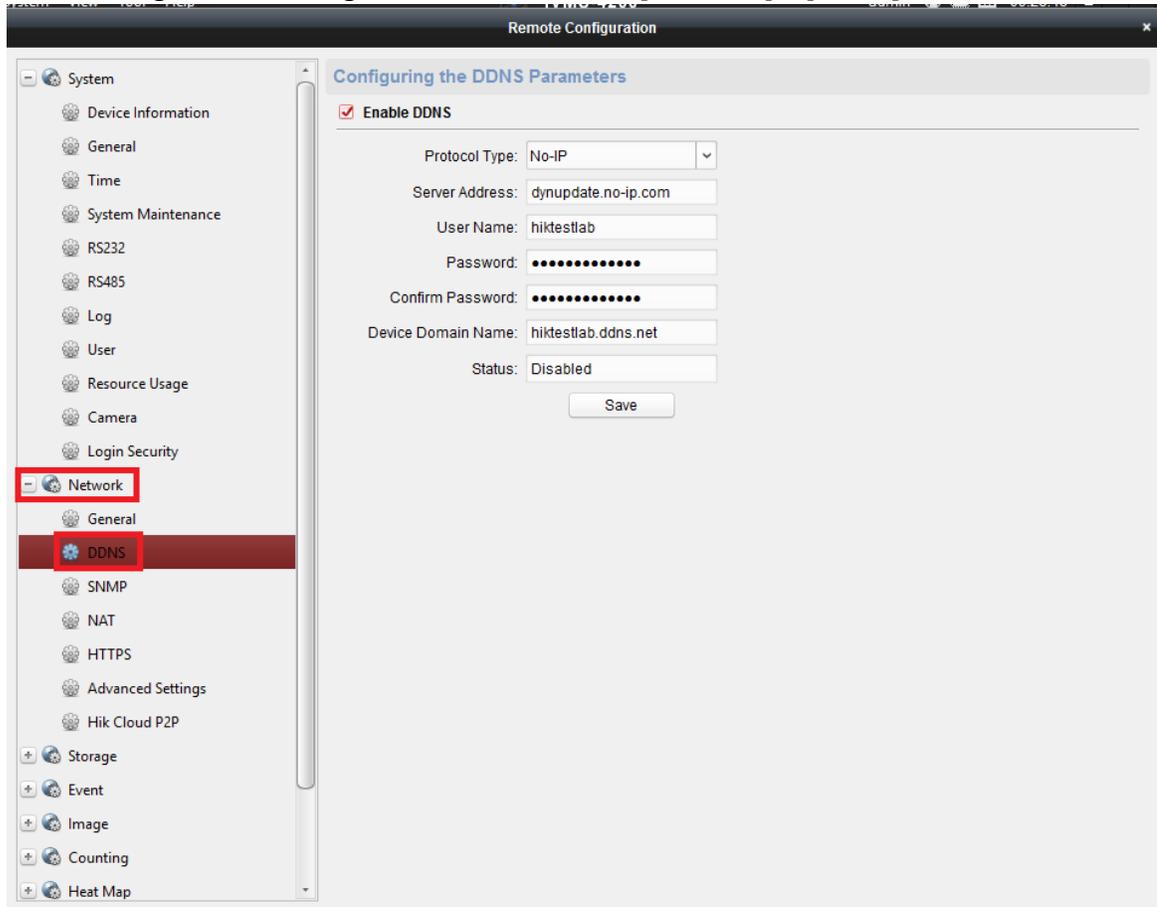


b. In the **[Server]** tab, select your device and go to **[Remote Configuration]**.



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



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

DDNS Type: NO-IP

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

User Name: *Your No-IP username*

Password/Confirm: *Your No-IP password*

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

- 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 DynDNS Pro account dashboard. At the top, there is a navigation bar with the Dyn logo, a welcome message for 'rodrigokim', and links for 'My Services', 'My Cart', and 'Log Out'. A search bar is also present. Below the navigation bar, there is a banner for a 'Risk-Free, 7-Day Trial Of Managed DNS Express'. A yellow warning box 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.' The main content area is divided into three columns: 'My Services', 'Billing', and 'Account Settings'. The 'My Services' column has a red box around the 'DynDNS Pro' link. Other links in 'My Services' include 'My Zones/Domains', 'My Hosts', 'Managed DNS Express', 'Internet Guide', 'Health Check', 'Support', and 'Contact Support'. The 'Billing' column includes 'Update your billing information', 'View Shopping Cart', 'Active Services', 'Order History', 'Billing Profile and Vouchers', 'Renew Services', 'Auto Renew Settings', and 'Sync Expirations'. The 'Account Settings' column includes 'Update your email address', 'Change Email Address', 'Change Password', 'Change Username', 'Contact Manager', 'Mailing Lists', 'Move Services', 'Preferences', and 'Close Account'.

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

The screenshot shows the 'DynDNS Pro and Host Services' page. At the top, there is a navigation bar similar to the previous screenshot. A yellow warning box is present. The main content area is titled 'DynDNS Pro and Host Services' and includes a '+ My Services' button. Below this, there is a message: 'Hostname hiktestlab.dyndns.org updated.' A table titled 'DYNDNS HOSTNAMES' has a red box around the '+ Add New Hostname' button in the top right corner. The table has columns for 'HOSTNAME', 'SERVICE', 'DETAILS', and 'LAST UPDATED'. One hostname is listed: 'hiktestlab.dyndns.org' with service 'Host' and IP '76.91.185.12', last updated 'Dec. 14, 2016 11:30 AM'. Below the table are links for 'Add External WebHop' and 'Host Update Logs'. There is also a 'SINGLE PACKAGE OF PRO' section with a '+ Add More Pro' button, showing 'DynDNS Pro (cancel) (renew now)' with an expiration date of 'December 20, 2016'. A 'HOSTNAMES AVAILABLE' section states: 'You are using 1 of the 30 hosts currently available in your account' and 'You have 29 hostnames remaining'. At the bottom, there is a link to join the 'DynDNS Community'.

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- 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.

Hostname: .

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:
[Your current location's IP address is 70.211.131.127](#)

IPv6 Address (optional):

TTL value is 60 seconds. [Edit TTL...](#)

Mail Routing: I have mail server with another name and would like to add MX hostname...

[Activate](#)

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

DynDNS Pro and Host Services

Hostname hiktestlab.dyndns.org updated.

If you've created a hostname for a **Linksys Router**, download our free app for an **automatic** router setup.

[Download the Linksys Router Setup App](#)

Otherwise you will need to complete a manual router configuration to use DynDNS!

HOSTNAME	SERVICE	DETAILS	LAST UPDATED
hiktestlab.dyndns.org	Host	70.211.131.127	Dec. 14, 2016 11:19 AM

[Add External WebHop](#)
[Host Update Logs](#)

SINGLE PACKAGE OF PRO [Add More Pro](#)

PACKAGE	EXPIRATION DATE
DynDNS Pro (cancel) (renew now)	December 20, 2016

HOSTNAMES AVAILABLE

You are using 1 of the 30 hosts currently available in your account

You have **29** hostnames remaining

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2. DDNS Setup for Cameras/NVRs Using Web Browser

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

The screenshot displays the HIKVISION web interface. At the top, there are tabs for Live View, Playback, Picture, and Configuration. The Configuration tab is active. On the left, a navigation menu shows 'Basic Settings' selected. The main area shows the DDNS configuration page with the following fields:

- Enable DDNS
- DDNS Type: DynDNS
- Server Address: members.dyndns.org
- Domain: hiktestlab.dyndns.org
- User Name: rodrigokim
- Port: 1
- Password: [masked]
- Confirm: [masked]

A red 'Save' button is located at the bottom of the form.

- 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*
- 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

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

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

The screenshot shows the 'Configuration' window with the 'DDNS' tab selected. The 'Enable DDNS' checkbox is checked. The 'DDNS Type' dropdown is set to 'DynDNS'. The 'Server Address', 'Device Domain Name', 'User Name', and 'Password' fields are empty. A 'Confirm' field is also present. The interface includes a sidebar with navigation options like General, Network, Alarm, RS-232, Live View, Exceptions, User, and Hot Spare. At the bottom right, there are 'Apply' and 'Back' buttons.

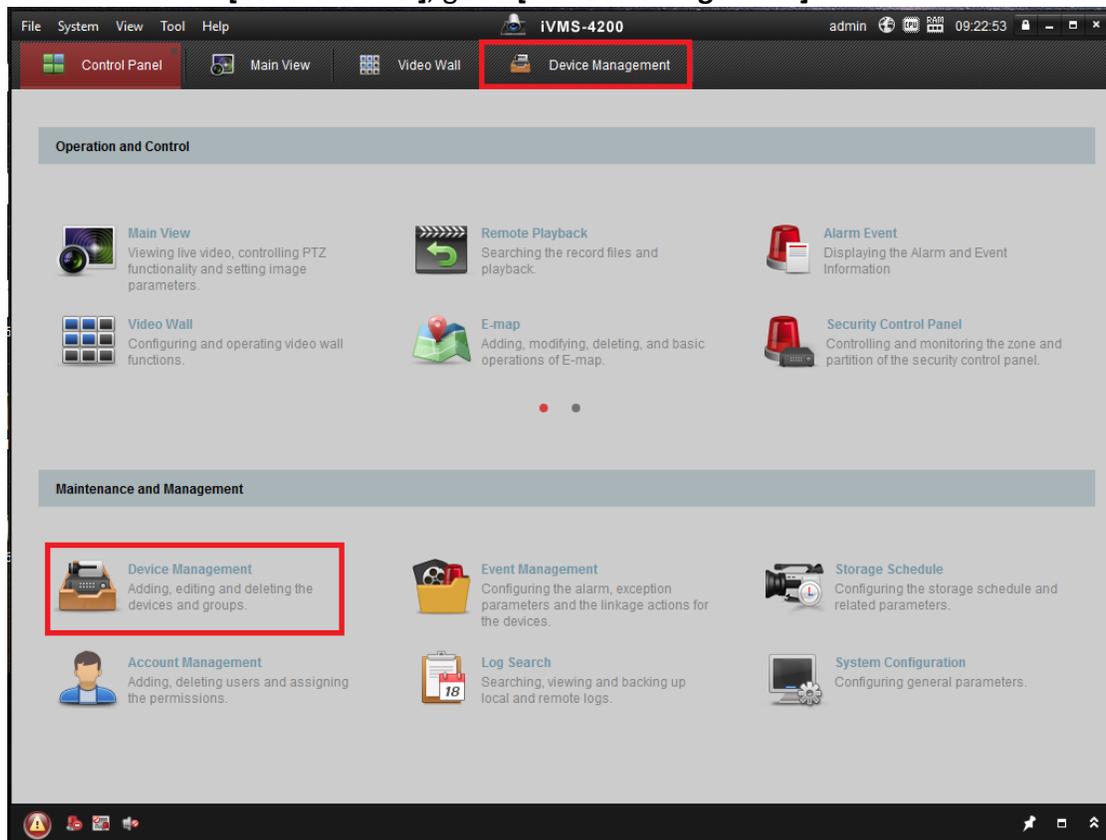
- d. Check the box for **[Enable DDNS]**, and fill out the provided fields:
DDNS Type: DynDNS
Server Address: *members.dyndns.org*
Device Domain Name: *configured hostname from part 1 (DynDNS hostname setup)*
User Name: *Your DynDNS username*
Password: *Your DynDNS password*
- e. Press **[Apply]** to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

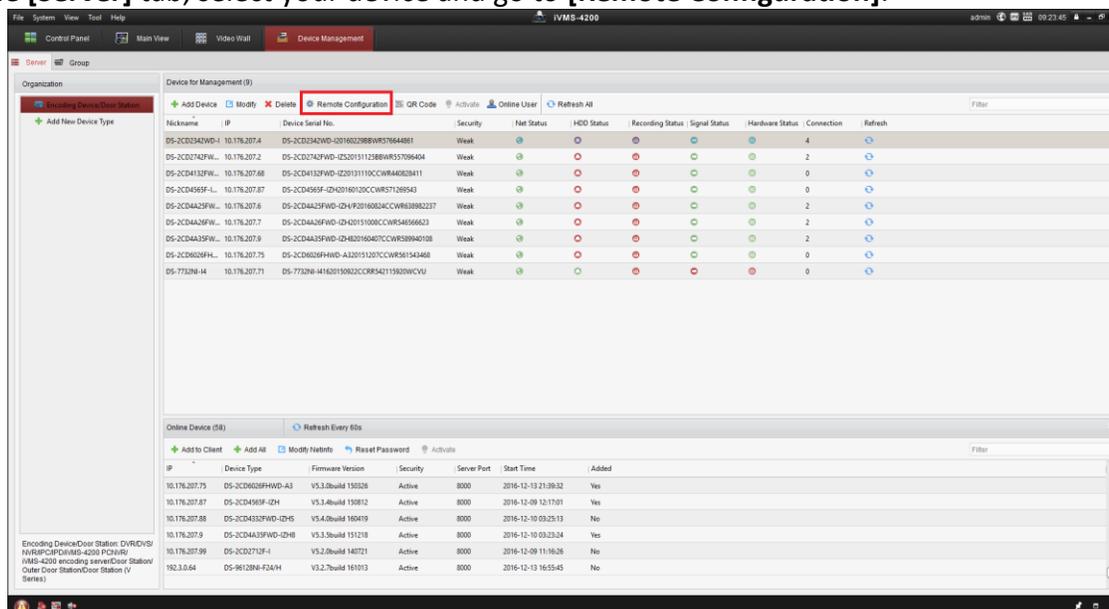
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4. DDNS Setup for Cameras/NVRs/DVRs using iVMS 4200

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]**.

Remote Configuration

Configuring the DDNS Parameters

Enable DDNS

Protocol Type: DynDNS

Server Address: members.dyndns.org

User Name: rodrigokim

Password:

Confirm Password:

Device Domain Name: hiktestlab.dyndns.org

Status: No Status

Save

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

DDNS Type: DynDNS

Server Address: *members.dyndns.org*

User Name: *Your DynDNS username*

Password/Confirm: *Your DynDNS password*

Device Domain Name: *configured hostname from part 1 (DynDNS hostname setup)*

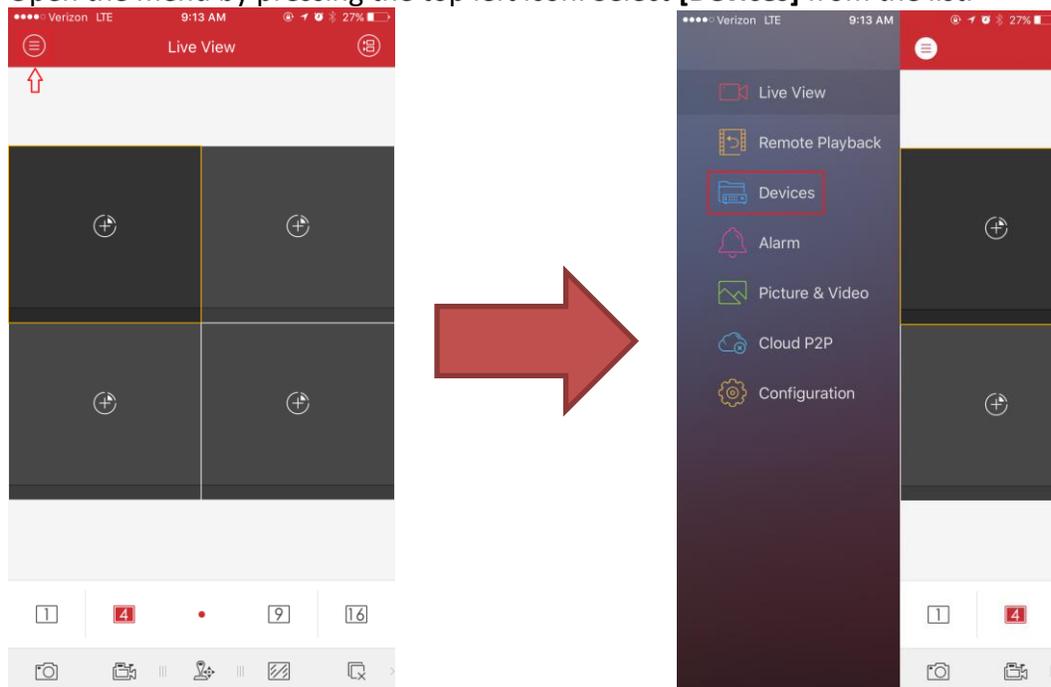
- e. Press **[Save]** to save your DDNS configuration.

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.

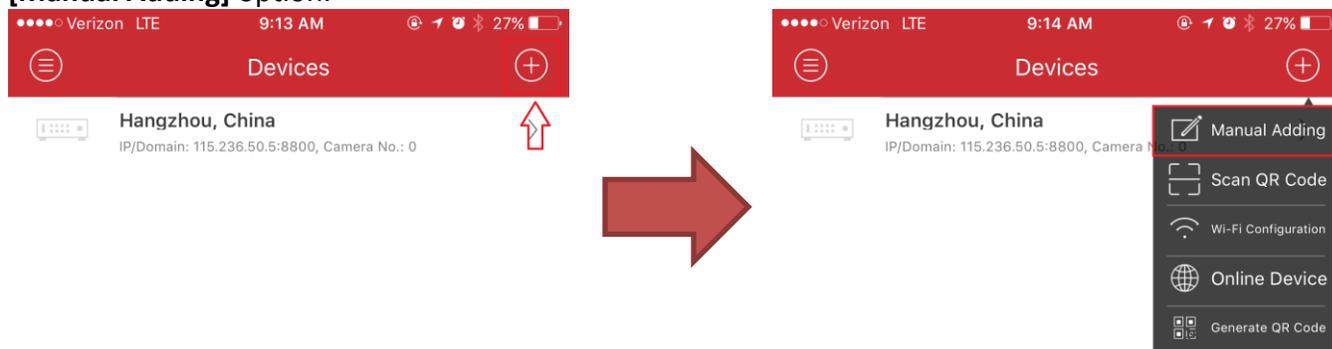
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Adding DDNS configured devices to iVMS 4500

1. Launch iVMS 4500 from your mobile device.
2. Open the menu by pressing the top left icon. Select **[Devices]** from the list.



3. The device list will be displayed on this screen. To add a DDNS configured device, press **[+]** and use the **[Manual Adding]** option.



4. Fill out the following information regarding your DDNS configured device:

Alias: Set a nickname for your device

Register Mode: IP/Domain

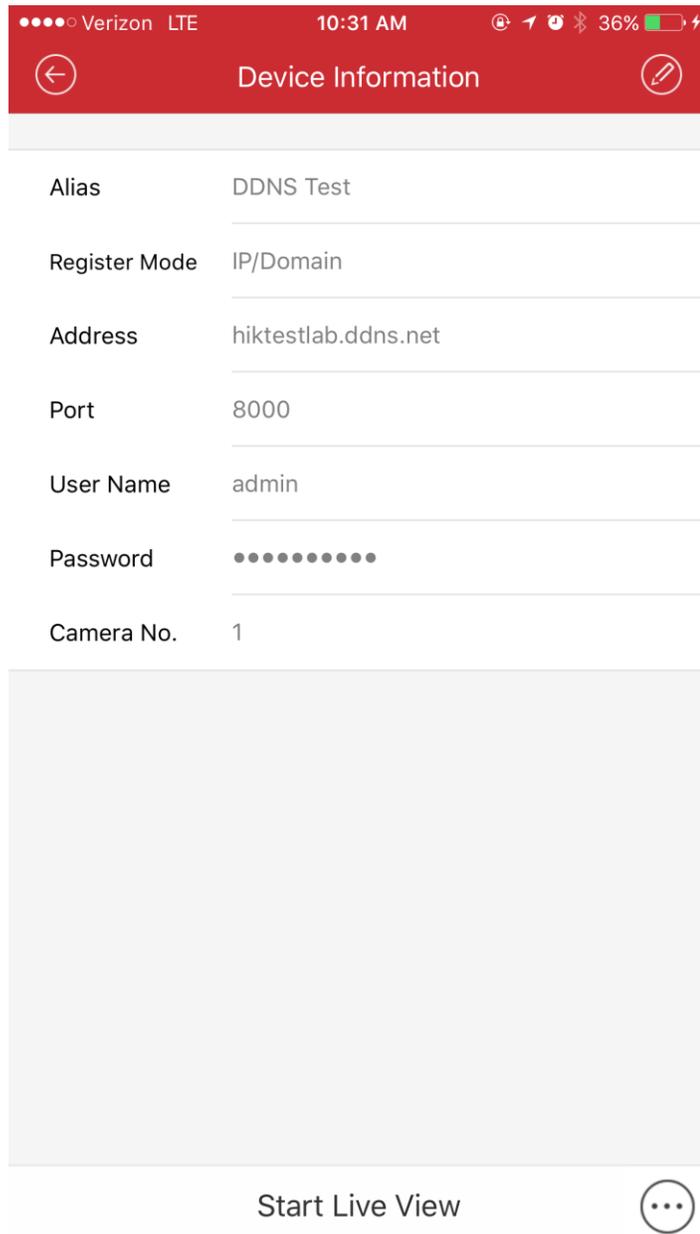
Address: Hostname created from your DDNS account.

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

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5. Press **[Start Live View]** to view your device.



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