

# 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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# How to Use Third Party DDNS Services

#### No-IP (<u>www.noip.com</u>)

- 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].

•≡ 🧖no-ip	Support - Use Old S	ite					Ą	Q Language	🋔 hiktes	tlab 🗸
Dashboard     Dynamic DNS     Free ~	Oynamic DNS							Upį	rade to Enh	anced
Hostnames Groups	Hostnames Groups	Device Configura	tion Assistant					Add H	ostname	
Dynamic Update Client Device Configuration Assistant	Manage Hostnames				Search	×	٤	Service Level		Free
My Services >	Hostname	IP	/ Target Ty	/pe Expir	ation			Free Hostnam	es expire eve	Prv
📥 Account 💦 🔶	hiktestlab.ddns.net	<b>0</b> 76	91.185.12	Expir	es in 19 days	Modify	×	30 days. Enhanced Hostnames never expire. Upgrade to		
Support Center >	hiktestlab2.ddns.net No Dynamic Update Detected	<b>@</b> 97	90.7.98	Expir	es in 23 days	Modify	×	Enhanced		
Upgrade to Enhanced	8					Add Hostname		Hostna	me Count	
									2 /3	
								Buy More	Hostnames	
									Feedl	back

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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	Add Hostname				×
	Hostname	Domain ddns.net •	Record Type		
	Enable Wildcard  Upgrade to Enhanced to enable wild IPv4 Address	Icard hostnames.			
	10.95.235.27				
	+ Add MX Records				
			Cancel	Add Hostnai	me

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].

🖵 Local	TCP/IP DDN	S PPPoE Po	rt NAT	
System	🖉 Enable DE	NS		
Network	DDNS Type	NO-IP		•
Basic Settings	Server Addres	s dynupd	ate.no-ip.com	0
Advanced Settings	Domain	hiktestl	ab.ddns.net	0
Video/Audio	User Name	hiktestl	ab	0
Image	Port	1		
Event	Password	••••••		0
Storage	Confirm		••••	0
	8	Save		

 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.
  - Access the device's system settings using [Mouse Right-Click] > [Menu] > [System Configuration].

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

				Configur	ation					
츟 General	General	PPPOE	DDNS	NTP	Email	SNMP	NAT	More Setting	5	
🗄 Net 🔷 🔹				☑ NO-IP						
\land Alarm	DDNS Server	Address		NO-IF						
,≇ RS-232		Device Domain Name								
	Viser N Passw									
▲ Exceptions	Confir	n								
👪 User										
≞ Hot Spare										
♠ Live View								Apply	Back	

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



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

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• • 88	VMS-4200	nd Man	agem	nt 🖸								
		D	evice									
	Device		2 I 2	Name 0	Connection	Network Para		Serial No. DS-2CD2T27G3E-L202008		Resource U		Operation 図 図 日 A C
		ľ	-	10.9.91.37	IP/Domain	10.9.97.37:8000	Encoding U	US+2CU2127G3E+L202008	weak	V Online	No available version	Basic Settings Advanced Function
5												
3												

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

	-			
	Local	TCP/IP DDNS PPPo	DE Port NAT	
	System	Enable DDNS		
G	Network	DDNS Type	NO-IP	[
	Basic Settings	Server Address	dynupdate.no-ip.com	
	Advanced Settings	Domain	hiktestlab.ddns.net	
Q.	Video/Audio	User Name	hiktestlab	
1	Image	Port	0	
圁	Event	Password	•••••	
B	Storage	Confirm	•••••	
			_	
		🖹 Save		

- 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 (<u>www.dyn.com</u>)

- 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.

JDyn	← Back to Dyn W	elcome <b>rodrigokim 🗤</b> My Services	My Cart Log Out	Search Dyn SUPPORT ABOUT
Looking to test dr	<b>Risk-Free, 7-D</b> ive our fastest, most reliable DNS? Get started w	ay Trial Of Managed DNS Express ith our free 7-day trial of Managed DNS Expr	ress today! <u>Browse 7-Day F</u>	Free Trial Options
Ð		not generated an updater client key! th update clients to help keep your account o dismiss	credentials secure.	
My Account				
My Services	It looks like you have purchased	Pro but haven't created any hostnames.	Let's get you set up:	
Account Settings	1. Create your Dynamic DNS hos	tname.		
Billing	2. Install an update client to ensu	ure your hostname is always pointed to the c	orrect IP address.	
My Cart	<ol><li>For more detailed instructions,</li></ol>	, please see our <u>Dyn Wizard</u> .		
<u>0 items</u>	My Services	Billing	Account Setting	ac
<u>0 items</u>	My Services	Billing	Account Settinį	
<u>Oitems</u>	My Services View, modify, purchase, and delete your services.	Update your billing information, complete a purchase, and view	Account Setting Update your email a preferences, and del	address, set
<u>Oitems</u>	View, modify, purchase, and delete	Update your billing information, complete a purchase, and view invoices.	Update your email a	address, set lete your account.
<u>Oitems</u>	View, modify, purchase, and delete your services.	Update your billing information, complete a purchase, and view invoices. View Shopping Cart	Update your email a preferences, and del	address, set lete your account. Address
<u>Oitems</u>	View, modify, purchase, and delete your services. My Zones/Domains	Update your billing information, complete a purchase, and view invoices. View Shopping Cart Active Services	Update your email a preferences, and del Change Email A	address, set lete your account. Address ord
<u>Oitems</u>	View, modify, purchase, and delete your services. My Zones/Domains Add Zone/Domain Services	Update your billing information, complete a purchase, and view invoices. View Shopping Cart Active Services Order History	Update your email a preferences, and del Change Email A Change Passwo	address, set lete your account. Address ord ime
<u>Oltems</u>	View, modify, purchase, and delete your services. My Zones/Domains Add Zone/Domain Services My Hosts	Update your billing information, complete a purchase, and view involces. View Shopping Cart Active Services Order History Billing Profile and Vouchers	Update your email a preferences, and del Change Email A Change Passwo Change Userna	address, set lete your account. Address ord ime
<u>Oitems</u>	View, modify, purchase, and delete your services. My Zones/Domains Add Zone/Domain Services My Hosts Add Host Services	Update your billing information, complete a purchase, and view invoices. View Shopping Cart Active Services Order History Billing Profile and Vouchers Renew Services	Update your email a preferences, and del Change Email A Change Passwo Change Userna Contact Manage	address, set lete your account. Address ord ime
<u>Oitems</u>	View, modify, purchase, and delete your services. My Zones/Domains Add Zone/Domain Services My Hosts Add Host Services DynDNS Pro	Update your billing information, complete a purchase, and view invoices. View Shopping Cart Active Services Order History Billing Profile and Vouchers Renew Services Auto Renew Settings	Update your email a preferences, and de Change Email A Change Passwo Change Userna Contact Manage Mailing Lists	address, set lete your account. Address ord ime
<u>O.Items</u>	View, modify, purchase, and delete your services. My Zones/Domains Add Zone/Domain Services My Hosts Add Host Services DynDNS Pro Managed DNS Express	Update your billing information, complete a purchase, and view invoices. View Shopping Cart Active Services Order History Billing Profile and Vouchers Renew Services	Update your email a preferences, and del Change Email A Change Passwo Change Userna Contact Manage Mailung Lists Move Services	address, set lete your account. Address ord ime
<u>Oltems</u>	View, modify, purchase, and delete your services. My Zones/Domains Add Zone/Domain Services My Hosts Add Host Services DynDNS Pro Managed DNS Express Internet Guide	Update your billing information, complete a purchase, and view invoices. View Shopping Cart Active Services Order History Billing Profile and Vouchers Renew Services Auto Renew Settings	Update your email a preferences, and del Change Email. A Change Passwoo Change Userna Contact Manage Mailing Lists Move Services Preferences	address, set lete your account. Address ord ime

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

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		🚫 Dyn	← Back to Dyn Welcor	ne rodrigokim 🗤 🕅	ly Services My Cart I	.og Out Search Dyn SUPPORT AB		
		0	You have not Please <u>generate a key</u> for use with u	generated an updater date clients to help keep <u>dismiss</u>		ıre.		
		My Account	DynDNS Pro and Host Service			<u>↑ My Se</u>	rvices	
		My Services		Hostname hiktestlab.dy	idns.org updated.			
		DynDNS Pro/Hosts				-		
		Managed DNS Express	DYNDNS HOSTNAMES			+ Add New Hos	tname	
		Domain names, DNS hosting, Dyn Email services	HOSTNAME	SERVICE DETAIL	3	LAST UPDATED		
		Health Check	hiktestlab.dyndns.org	Host 76.91.18	5.12	Dec. 14, 2016 11:30 AM		
		Internet Guide						
		Email Delivery Express	» Add External WebHop					
		Renew Services	» Host Update Logs					
		Auto Renew Settings						
		Sync Expirations Tips on Getting Started	SINGLE PACKAGE OF PRO	+ Add More Pro	HOSTNAMES A	/AILABLE		
		Account Settings	PACKAGE EXP	RATION DATE	You are using I o	f the <b>30</b> hosts current	ly	
		Billing	DynDNS Pro (cancel) (renew	cember 20, 2016	available	in your account		
		My Cart <u>0 items</u>	now)	2010 207 2010	You have <b>29</b> h	ostnames 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.

Join the discussion in the DvnDNS Community for tips and tricks, demos, suggestions, user help and much more.

Hostname:	hiktestlab	• dyndns.org	۲
Wildcard:		dyndns-yourdomain.com" alias o use same settings for www.ho m)	
Service Type:	<ul> <li>Host with IP a</li> <li>WebHop Redir</li> <li>Offline Hostna</li> </ul>	ect (URL forwarding service)	
IP Address:	70.211.131.127		
	Your current locati	on's IP address is 70.211.131.1	.27
	IPv6 Address (option	onal):	
	TTL value is 60 sec	onds. <u>Edit TTL</u>	
Mail Routing:	I have mail ser add MX hostna	ver with another name and wou me	uld like to
			Activa

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

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	🚫 Dyn	← Back to Dyn Welcome	rodrigokim VIP My Service	s My Cart Log Out Search D		
	Θ	<b>You have not ge</b> Please <u>generate a key</u> for use with upda	nerated an updater client ke te clients to help keep your acco <u>dismiss</u>			
	My Account	DynDNS Pro and Host Services		<u>† Му</u>	Services	
	My Services	Но	stname hiktestlab.dyndns.org (	updated.		
	DynDNS Pro/Hosts Managed DNS Express					
	Domain names, DNS hosting, Dyn Email services		Linksys Router, download our bad the Linksys Router S	free app for an automatic router setup.		
	Health Check	_				
	Internet Guide	Otherwise you will nee	d to complete a manual router co	onfiguration to use DynDNS!		
	Email Delivery Express Renew Services	-				
	Auto Renew Settings	DYNDNS HOSTNAMES		+ Add New I	Hostname	
	Sync Expirations				-	
	Tips on Getting Started	HOSTNAME SI	ERVICE DETAILS	LAST UPDATED		
	Account Settings	hiktestlab.dyndns.org H	ost 70.211.131.127	Dec. 14, 2016 11:19 AM		
	Billing	» Add External WebHop			-	
	My Cart <u>0 items</u>	» Host Update Logs				
		SINGLE PACKAGE OF PRO	+ Add More Pro	STNAMES AVAILABLE		
	Automatically Set Up Your Linksys Router	PACKAGE EXPIRA	TION DATE	You are using I of the <b>30</b> hosts curre	ntly	
		DynDNS Pro (cancel) (renew Occeanow)	mber 20, 2016	available in your account You have <b>29</b> hostnames remaini	ng	

- 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].

Local	TCP/IP DDNS	PPPoE Por	t NAT	
System	Enable DDN	IS		
O Network	DDNS Type	DynDN	S	•
Basic Settings	Server Address	member	s.dyndns.org	
Advanced Settings	Domain	hiktestla	ab.dyndns.org	
Video/Audio	User Name	rodrigoki	im	
Image	Port	1		
Event	Password			
Storage	Confirm	•••••		1
	B s	21/0		

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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: YourDynDNS 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].

				Configur	ation				
화 General	General	PPPOE	DDNS	NTP	Email	SNMP	NAT	More Settings	
A Network	Enable	DDNS							
	DDNS -	Гуре		DynDNS					
\land Alarm	Server	Address							
🕫 RS-232	Device	Domain Na	me						
	User Na	ame							
<ul> <li>Live View</li> </ul>	Passwo								
▲ Exceptions	Confirm	k							
🔹 User									
🛎 Hot Spare									
♠ Live View								Apply	Back

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].

Con	figuration			
Ţ	Local	TCP/IP DDNS PPP	oE Port NAT	
	System	Enable DDNS		
Ð	Network	DDNS Type	DynDNS 🗸	]
	Basic Settings	Server Address	members.dyndns.org	
	Advanced Settings	Domain	hiktestlab.dyndns.org	
<u>Q.</u>	Video/Audio	User Name	rodrigokim	
1	Image	Port	0	
圁	Event	Password	•••••	
B	Storage	Confirm	•••••	
		🖹 Save		

- 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		< 0	Device Information	Ø		
Adding Type	IP/Domain	>	Adding Type				
Alias	New Device 01	0	Alias	DDNS TEST			
Address			Address	hiktestlab.dyndr	is.org		
Port	8000	0	Port	8000			
User Name	-		User Name	admin			
Device Password			Device Password				
Camera No.	1		Camera No.	2			
				Start Live View			

