Title:	Remote Access of a DVR/NVR with Free HikVision DDNS Service				
Date:	07/14/2014	Version:	1.0	Pages	12
Product:	DS-72xx-SH, 73xx-SH, 76xx-SE, 77xx-SP, 90xx-ST, 96xx-ST				
Action Required:	Information Only				

Networking a DVR/NVR requires 3 steps:

1. Assign an **IP address, Default Gateway, Subnet Mask, and a DNS server (Please note: DNS, not DDNS)** to the DVR/NVR
2. Forward the appropriate ports on the router **(Port Forwarding)**.
3. Register **DDNS** (DDNS registration is required only if the public IP address is Dynamic).

STEP 1:

Assigning the IP address, Default gateway, Subnet Mask and a DNS Server:
Go to "MENU", then "SYSTEM CONFIGURATION" then "NETWORK" **(Figures 1, 2 and 3)**.

Figure 1

Hikvision USA, Inc.
908 Canada Court, Industry, CA 91748
Phone: 909-895-0400 Fax: 909-595-0788
Email: techsupport@hikvisionusa.com Website: http://www.hikvision.com

Title:	Remote Access of a DVR/NVR with Free HikVision DDNS Service				
Date:	07/14/2014	Version:	1.0	Pages	12
Product:	DS-72xx-SH, 73xx-SH, 76xx-SE, 77xx-SP, 90xx-ST, 96xx-ST				
Action Required:	Information Only				

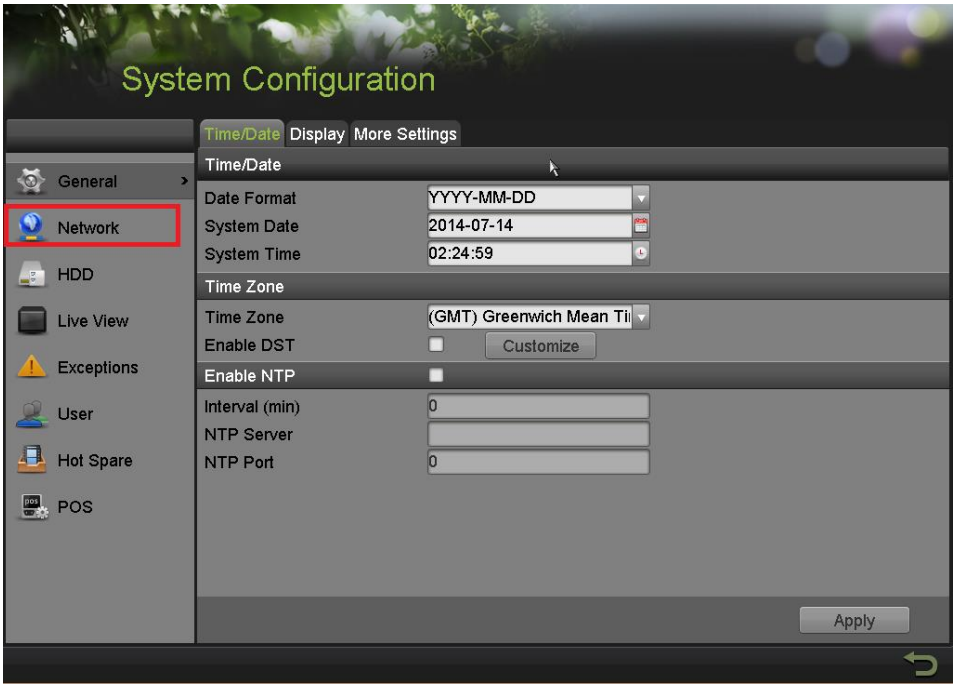

Figure 2

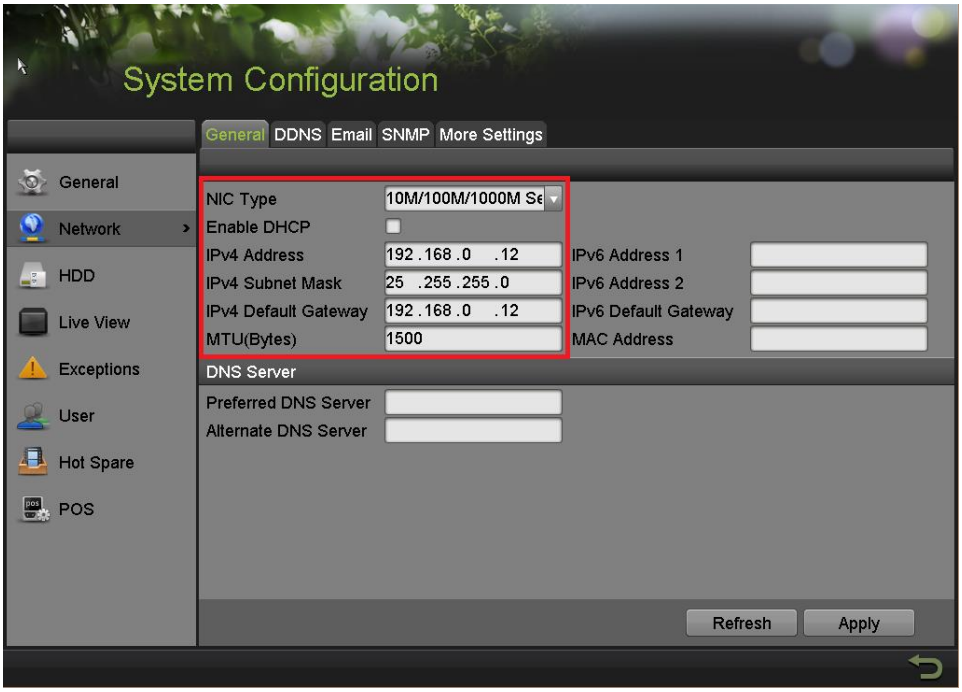

Figure 3

Hikvision USA, Inc.
908 Canada Court, Industry, CA 91748
Phone: 909-895-0400 Fax: 909-595-0788
Email: techsupport@hikvisionusa.com Website: http://www.hikvision.com

Title:	Remote Access of a DVR/NVR with Free HikVision DDNS Service				
Date:	07/14/2014	Version:	1.0	Pages	12
Product:	DS-72xx-SH, 73xx-SH, 76xx-SE, 77xx-SP, 90xx-ST, 96xx-ST				
Action Required:	Information Only				

After assigning an IP address and a gateway to the DVR/NVR, make sure that the **Preferred DNS Server** is a PUBLIC DNS SERVER. HikVision recommends using **8.8.8.8 (Figure 4)**.

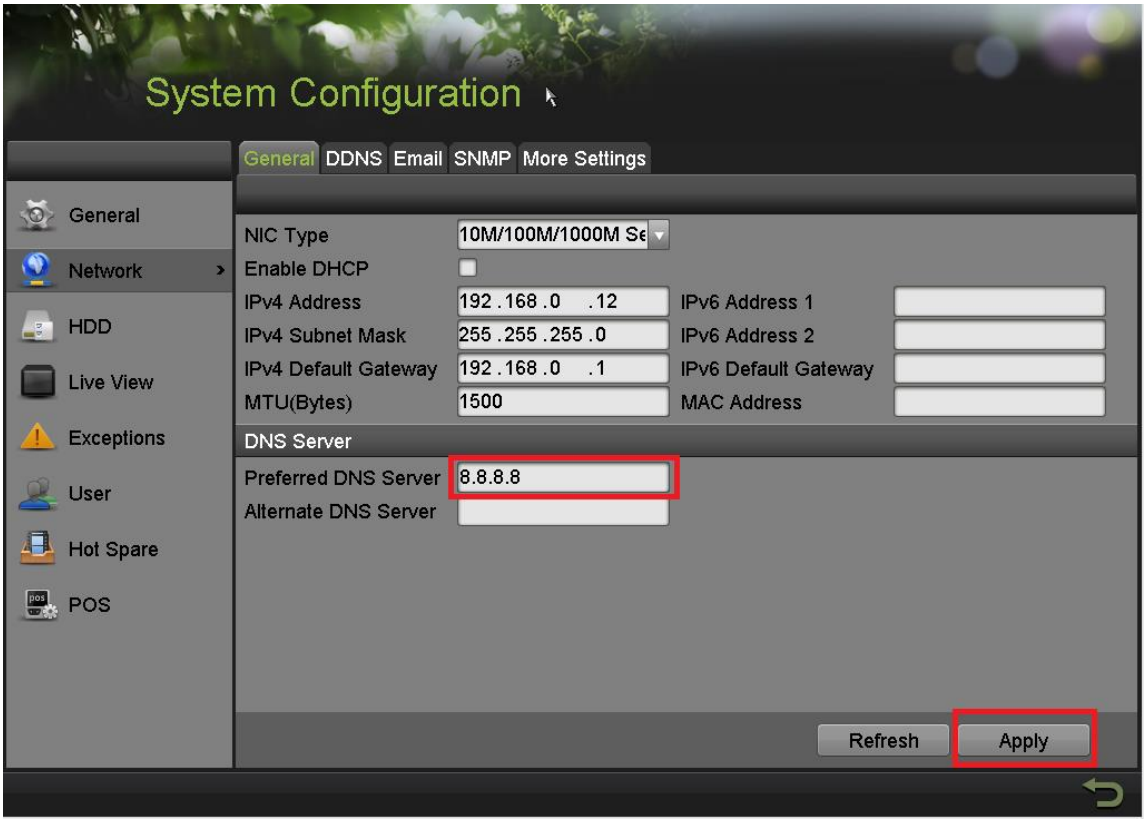

Figure 4

After assigning the IP information, click on the **"MORE SETTINGS"** tab **(Figure 5).**

Figure 5

Hikvision USA, Inc.
908 Canada Court, Industry, CA 91748
Phone: 909-895-0400 Fax: 909-595-0788
Email: techsupport@hikvisionusa.com Website: http://www.hikvision.com

Title:	Remote Access of a DVR/NVR with Free HikVision DDNS Service				
Date:	07/14/2014	Version:	1.0	Pages	12
Product:	DS-72xx-SH, 73xx-SH, 76xx-SE, 77xx-SP, 90xx-ST, 96xx-ST				
Action Required:	Information Only				

The **"MORE SETTINGS"** tab contains the ports that need to be forwarded for remote access

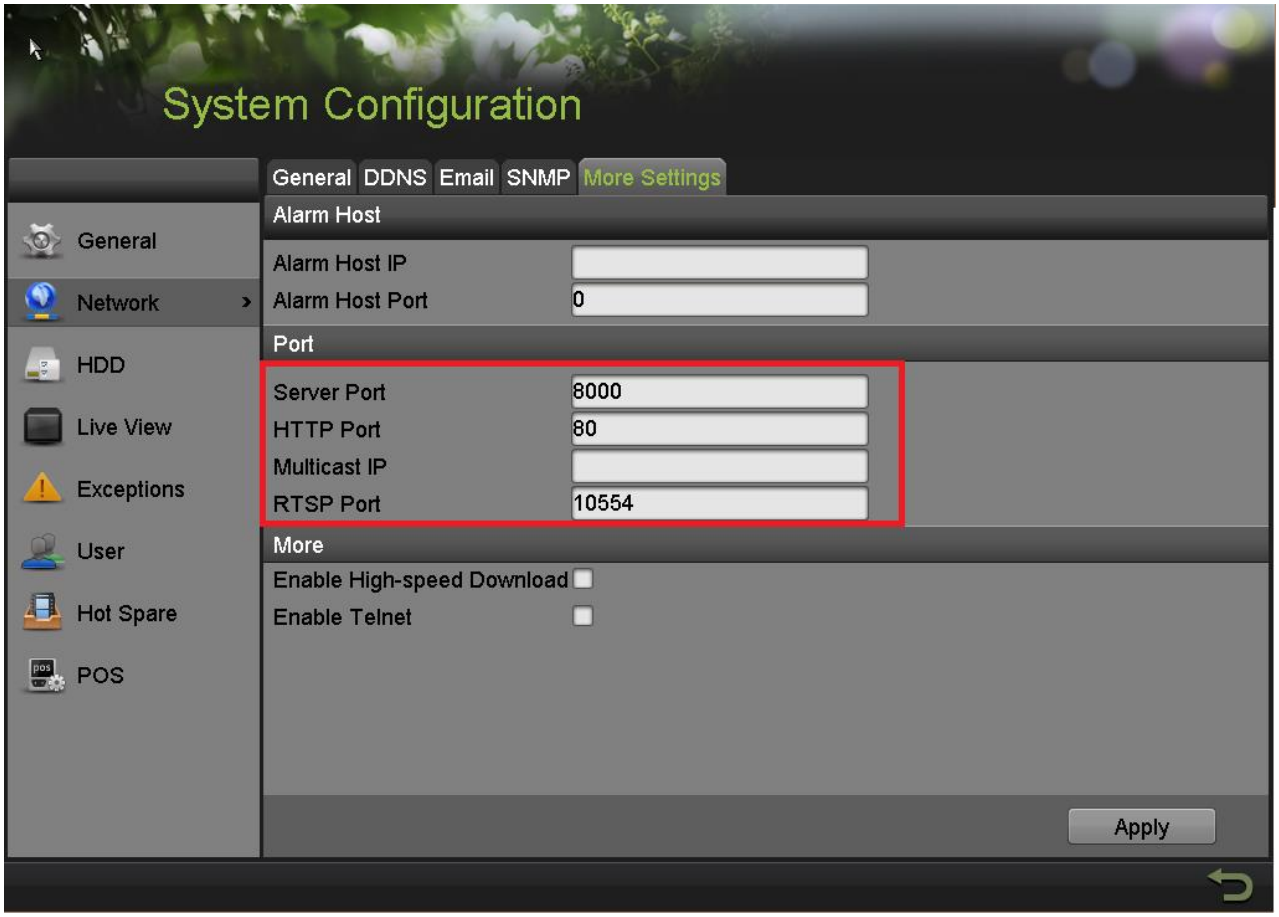

Figure 6

.

The **SERVER PORT** is responsible for the **MOBILE APP** and **CLIENT SOFTWARE** log-in.
The **HTTP PORT** is responsible for **WEB BROWSER** log-in.
The **RTSP PORT** is responsible for **VIDEO/AUDIO STREAMING**.

Units with older firmware have the **RTSP PORT** set to **554**. A lot of cell phone carriers block incoming data through port **554**, which is why HikVision recommends changing that port to **10554**
The **HTTP PORT** and the **SERVER PORT** can be changed if desired, in order to avoid conflicts with the **ISP** or the existing network configuration.

Hikvision USA, Inc.
908 Canada Court, Industry, CA 91748
Phone: 909-895-0400 Fax: 909-595-0788
Email: techsupport@hikvisionusa.com Website: http://www.hikvision.com

Title:	Remote Access of a DVR/NVR with Free HikVision DDNS Service					
Date:	07/14/2014	Version:	1.0	Pages	12	
Product:	DS-72xx-SH, 73xx-SH, 76xx-SE, 77xx-SP, 90xx-ST, 96xx-ST					
Action Required:	Information Only					

STEP 2:

After assigning the IP information to the DVR/NVR, connect a computer to the same router that the DVR/NVR is connected to (wired connection is recommended, to avoid complications). Log into the **ROUTER**, and proceed with **PORT FORWARDING**.

For **PORT FORWARDING** assistance contact the Internet Service Provider **(ISP)**, or the router manufacturer. Also refer to www.portforward.com for port forwarding step by step instructions. Please be aware, that HikVision USA is not associated with www.portforward.com, and not responsible for any activity between the user and www.portforward.com. Please refrain from downloading any software from the abovementioned website.
Proceed to the **"ROUTERS"** section for step by step instructions.

STEP 3:

DDNS registration has been made more user friendly, and takes only a few seconds to complete. The legacy units require user registration on www.hik-online.com. This step is no longer needed.

Click on the DDNS tab **(Figure 7)**.

Figure 7

In the **DDNS** tab:

a. Enable DDNS
b. Change the **DDNS TYPE** to **HiDDNS** (in some cases **HkDDNS**)
c. Make sure that the **SERVER ADDRESS** is set to www.hik-online.com
d. Create a **DEVICE DOMAIN NAME** (the domain name CANNOT contain **spaces, special characters and/or upper case letters**) **(Figure 8)**

Hikvision USA, Inc.
908 Canada Court, Industry, CA 91748
Phone: 909-895-0400 Fax: 909-595-0788
Email: techsupport@hikvisionusa.com Website: http://www.hikvision.com

Title:	Remote Access of a DVR/NVR with Free HikVision DDNS Service				
Date:	07/14/2014	Version:	1.0	Pages	12
Product:	DS-72xx-SH, 73xx-SH, 76xx-SE, 77xx-SP, 90xx-ST, 96xx-ST				
Action Required:	Information Only				

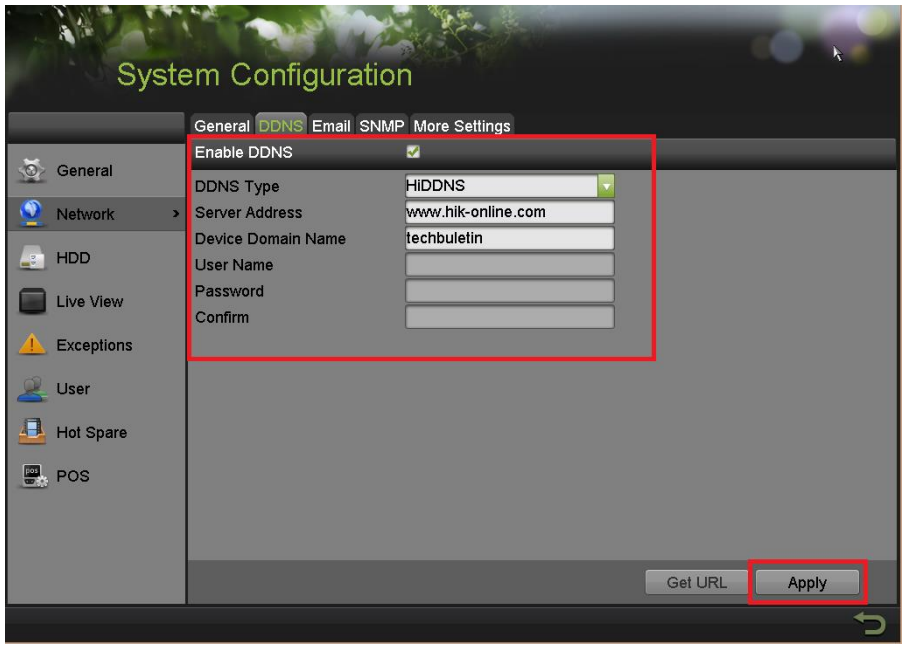

Figure 8

After the changes have been made, presses **"APPLY".** A **"SUCCESS"** message will pop up **(Figure 9)**.

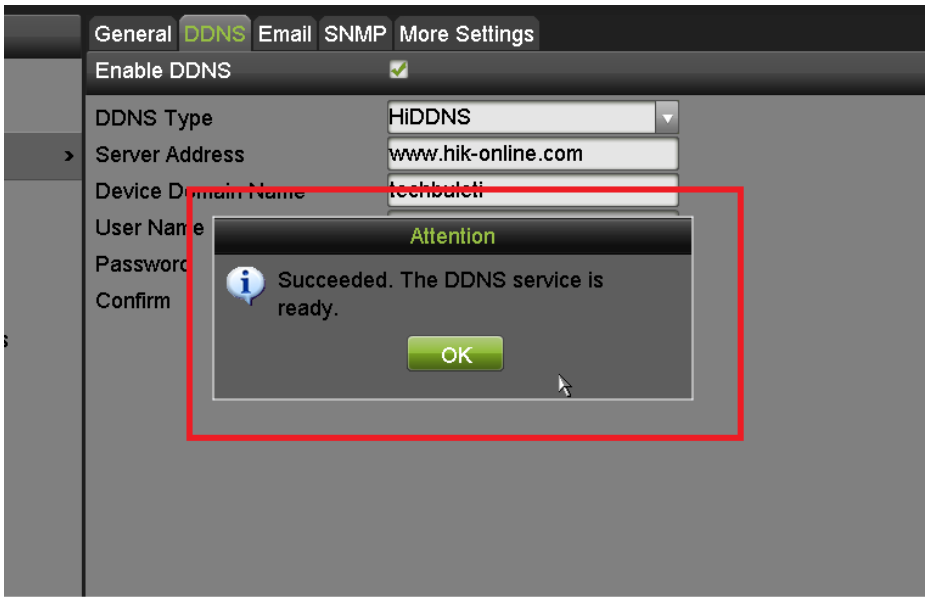

Figure 9

Hikvision USA, Inc.
908 Canada Court, Industry, CA 91748
Phone: 909-895-0400 Fax: 909-595-0788
Email: techsupport@hikvisionusa.com Website: http://www.hikvision.com

Title:	Remote Access of a DVR/NVR with Free HikVision DDNS Service				
Date:	07/14/2014	Version:	1.0	Pages	12
Product:	DS-72xx-SH, 73xx-SH, 76xx-SE, 77xx-SP, 90xx-ST, 96xx-ST				
Action Required:	Information Only				

If the Domain Name does not meet the acceptable criteria, and/or is already registered, an error message will appear.

Figures 10 and Figure 11 show the DDNS registration with the web GUI.

Click on DDNS, and

a. Enable DDNS
b. Change the **DDNS TYPE** to **HiDDNS** (in some cases **HkDDNS**)
c. Make sure that the **SERVER ADDRESS** is set to www.hik-online.com
d. Create a **DEVICE DOMAIN NAME** (the domain name CANNOT contain spaces, special characters and/or upper case letters) **(Figure 10)**

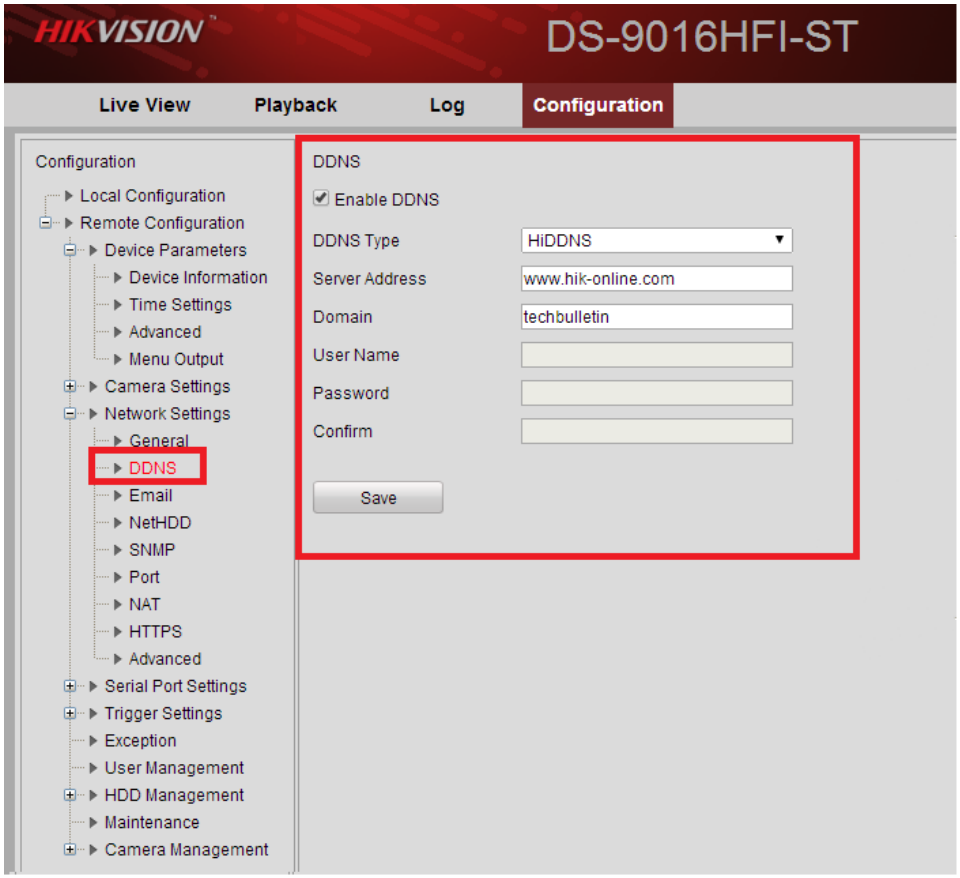

Figure 10

Hikvision USA, Inc.
908 Canada Court, Industry, CA 91748
Phone: 909-895-0400 Fax: 909-595-0788
Email: techsupport@hikvisionusa.com Website: http://www.hikvision.com

Title:	Remote Access of a DVR/NVR with Free HikVision DDNS Service				
Date:	07/14/2014	Version:	1.0	Pages	12
Product:	DS-72xx-SH, 73xx-SH, 76xx-SE, 77xx-SP, 90xx-ST, 96xx-ST				
Action Required:	Information Only				

Please note, the **"USER NAME"**, **"PASSWORD"** and **"CONFIRM"** (password confirmation) are inactive. No Username/Password is required to complete the registration **(Figure 11)**.

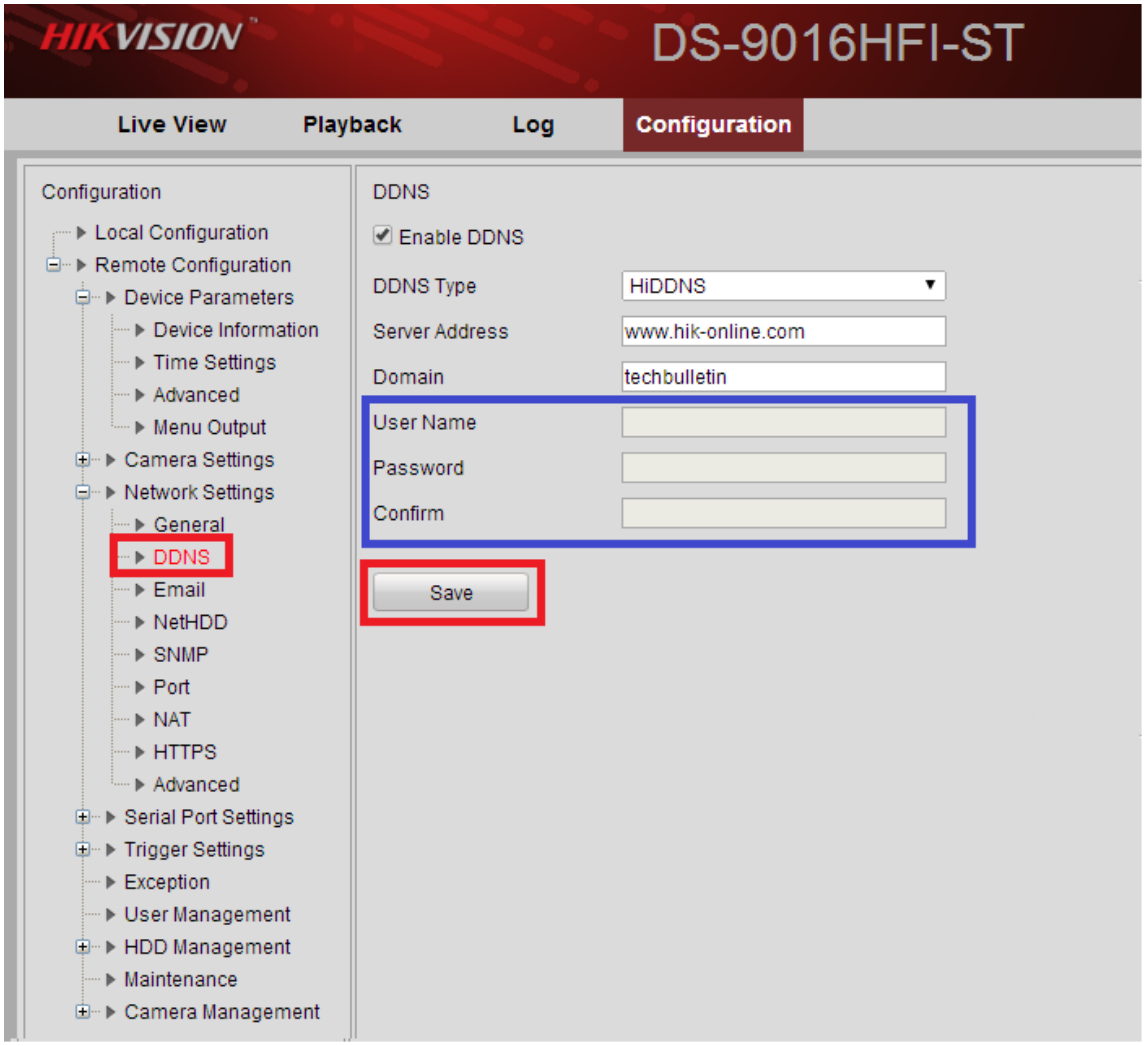

Figure 11

Hikvision USA, Inc.
908 Canada Court, Industry, CA 91748
Phone: 909-895-0400 Fax: 909-595-0788
Email: techsupport@hikvisionusa.com Website: http://www.hikvision.com

Title:	Remote Access of a DVR/NVR with Free HikVision DDNS Service				
Date:	07/14/2014	Version:	1.0	Pages	12
Product:	DS-72xx-SH, 73xx-SH, 76xx-SE, 77xx-SP, 90xx-ST, 96xx-ST				
Action Required:	Information Only				

After the DVR/NVR has been successfully configured for remote access, it is time to set up the DVR/NVR onto an **iPhone/Android** mobile device:

1. From the **APP STORE/PLAY STORE** (respectively iPhone and Android) download the **iVMS-4500** app.
2. Launch the app.

When the app is launched, a tutorial screen comes on, which can be skipped **(Figure 12)**.

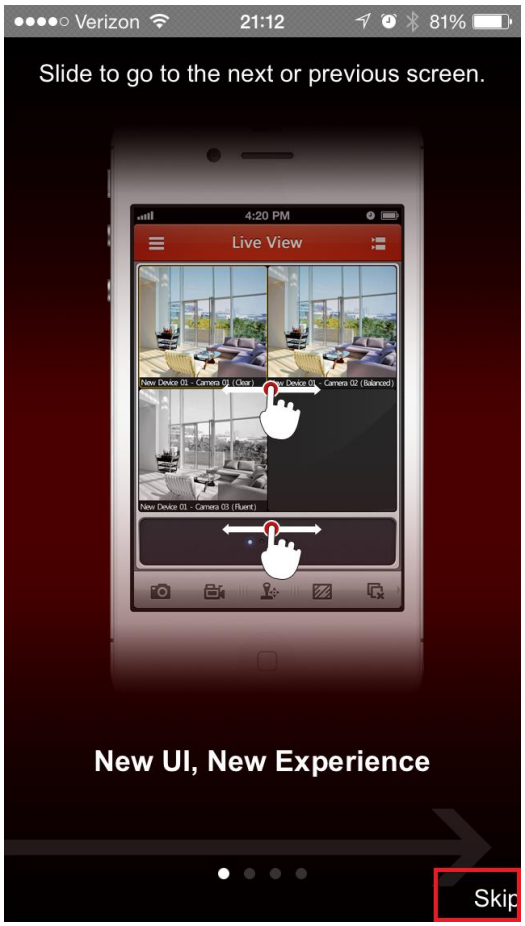

Figure 12

Figures 13-23 show step by step instructions on how to add a device to the **iVMS-4500** app.

Hikvision USA, Inc.
908 Canada Court, Industry, CA 91748
Phone: 909-895-0400 Fax: 909-595-0788
Email: techsupport@hikvisionusa.com Website: http://www.hikvision.com

Title:	Remote Access of a DVR/NVR with Free HikVision DDNS Service				
Date:	07/14/2014	Version:	1.0	Pages	12
Product:	DS-72xx-SH, 73xx-SH, 76xx-SE, 77xx-SP, 90xx-ST, 96xx-ST				
Action Required:	Information Only				

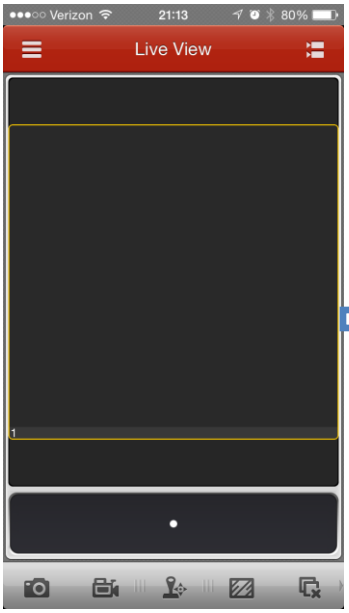

Figure 13

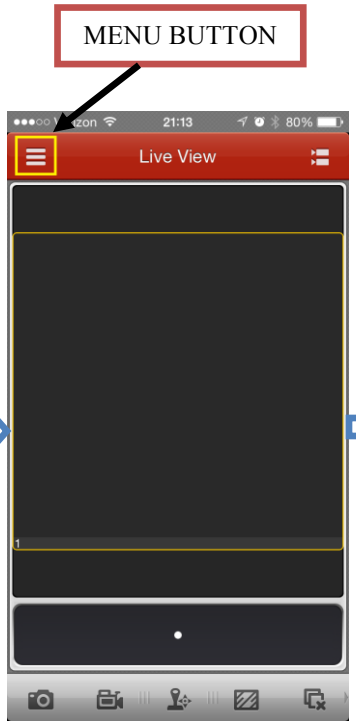

Figure 14

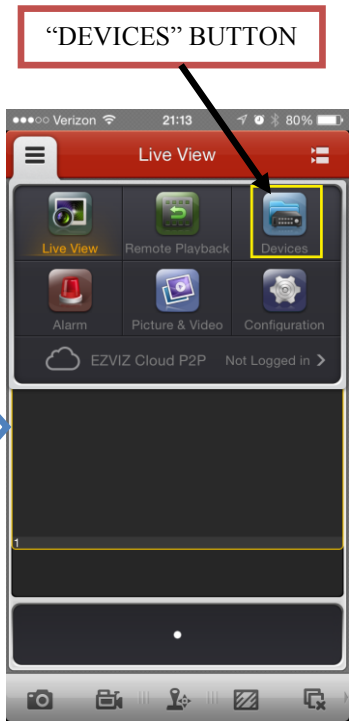

Figure 15

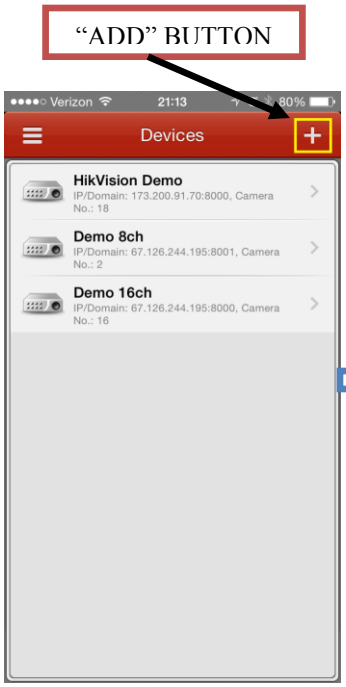

Figure 16

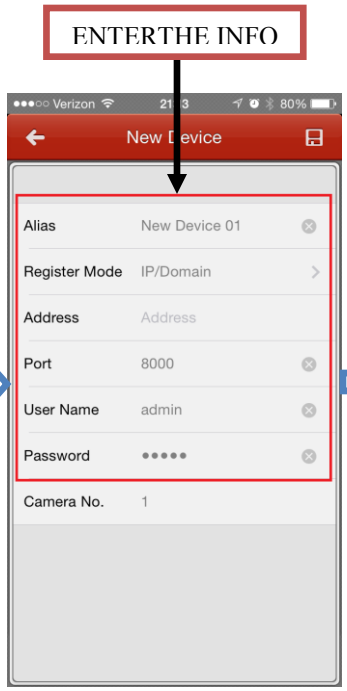

Figure 17

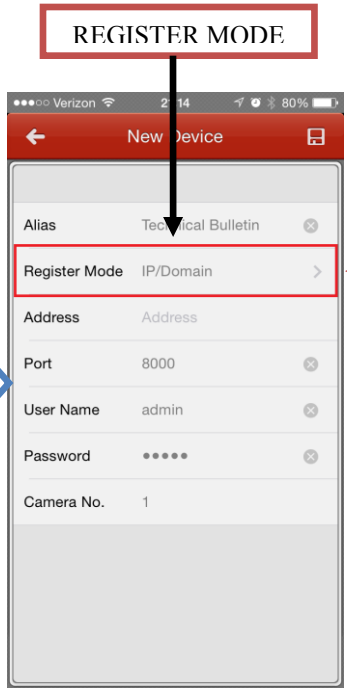

Figure 18

Please Note: If free HikVision DDNS is configured for the device, change the **"REGISTER MODE"** to **HiDDNS**

Hikvision USA, Inc.
908 Canada Court, Industry, CA 91748
Phone: 909-895-0400 Fax: 909-595-0788
Email: techsupport@hikvisionusa.com Website: http://www.hikvision.com

Title:	Remote Access of a DVR/NVR with Free HikVision DDNS Service				
Date:	07/14/2014	Version:	1.0	Pages	12
Product:	DS-72xx-SH, 73xx-SH, 76xx-SE, 77xx-SP, 90xx-ST, 96xx-ST				
Action Required:	Information Only				

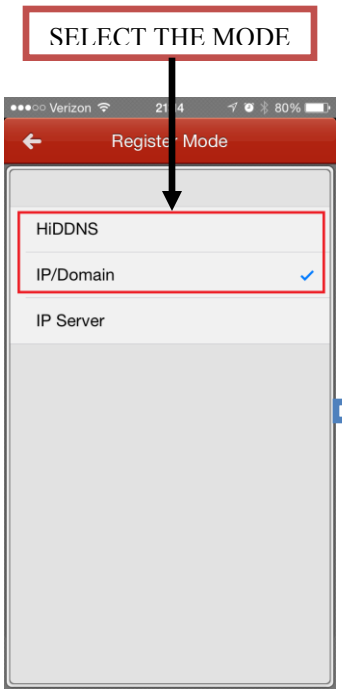

Figure 19

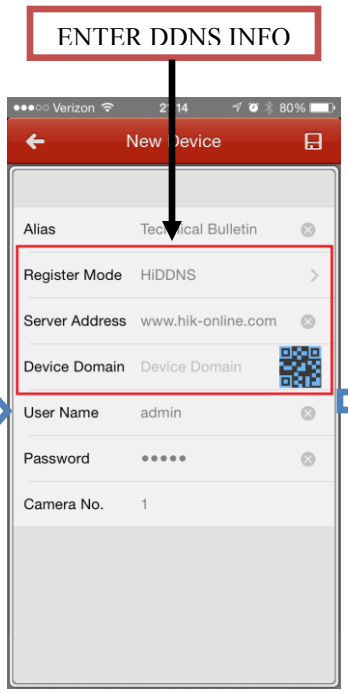

Figure 20

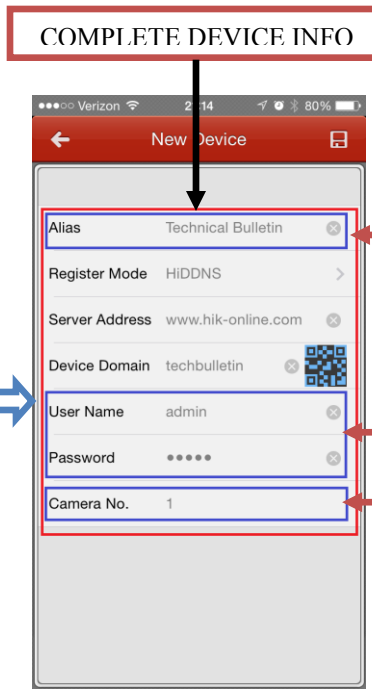

Figure 21

Please Note: Alias is just a friendly name for the address book (i.e. Home/Office)

User Name and **Password** are the DVR's/NVR's username and password

Please note: The "CAMERA NUMBER" is set to **1**. After saving the changes, the number will resemble the correct amount of cameras

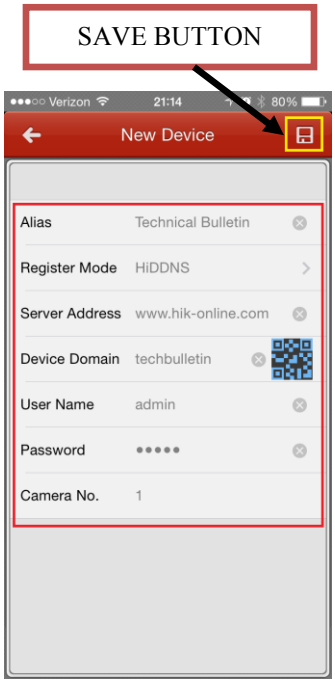

Figure 22

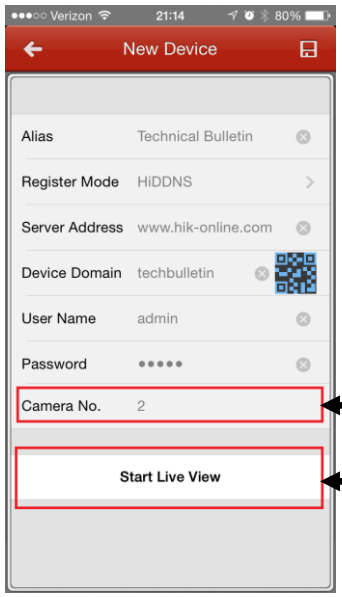

Figure 23

Please note: The "CAMERA NUMBER" has changed to the correct number of cameras connected to the DVR/NVR

Please note: "START LIVE VIEW" button will begin live camera stream

Hikvision USA, Inc.
908 Canada Court, Industry, CA 91748
Phone: 909-895-0400 Fax: 909-595-0788
Email: techsupport@hikvisionusa.com Website: http://www.hikvision.com

Title:	Remote Access of a DVR/NVR with Free HikVision DDNS Service				
Date:	07/14/2014	Version:	1.0	Pages	12
Product:	DS-72xx-SH, 73xx-SH, 76xx-SE, 77xx-SP, 90xx-ST, 96xx-ST				
Action Required:	Information Only				

Figure 13: The initial screen after skipping the tutorial
Figure 14: Press the **"MENU"** button
Figure 15: Press the **"DEVICES"** button
Figure 16: Press the **"ADD"** button
Figure 17: Default "NEW DEVICE" window
Figure 18: Modify the **REGISTER MODE**
Figure 19: Change the **REGISTER MODE** from **"IP/DOMAIN"** to **"HiDDNS"**
Figure 20: Enter the DVR's/NVR's **Domain Name**
Figure 21: Complete entering the information by entering the **Username** and the **Password**
Figure 22: Press the **"SAVE"** button
Figure 23: Press the **"START LIVE VIEW BUTTON"**

Please Note: "Alias" should be a friendly name to make it easy to identify the DVR/NVR in the address book.

Hikvision USA, Inc.
908 Canada Court, Industry, CA 91748
Phone: 909-895-0400 Fax: 909-595-0788
Email: techsupport@hikvisionusa.com Website: http://www.hikvision.com