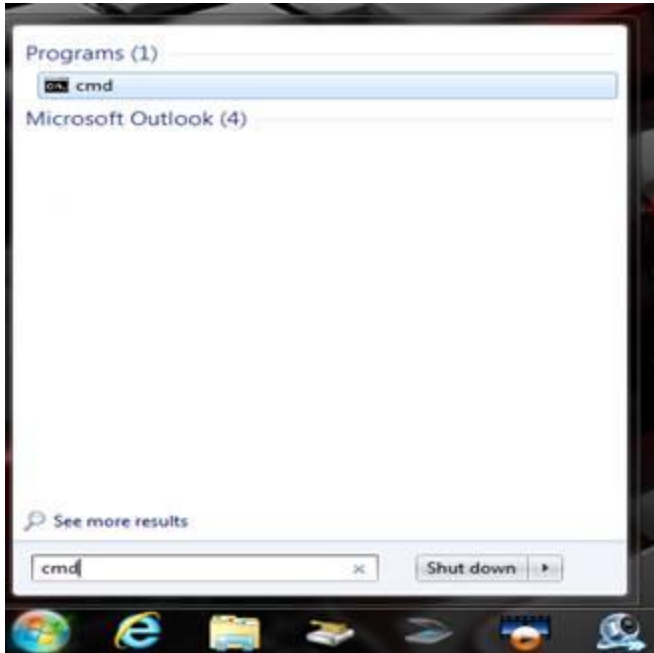


REMOTE VIEWING SETUP

What you will require is an ADSL Line with a Router that supports Port Forwarding and a PC or Laptop.

Connect the DVR to the Router and then please see the following steps:

Using a PC that is connected to the same router as the DVR, run the Command Prompt function under the start menu. Search "cmd" :



Open the Command Prompt and you will see the following:



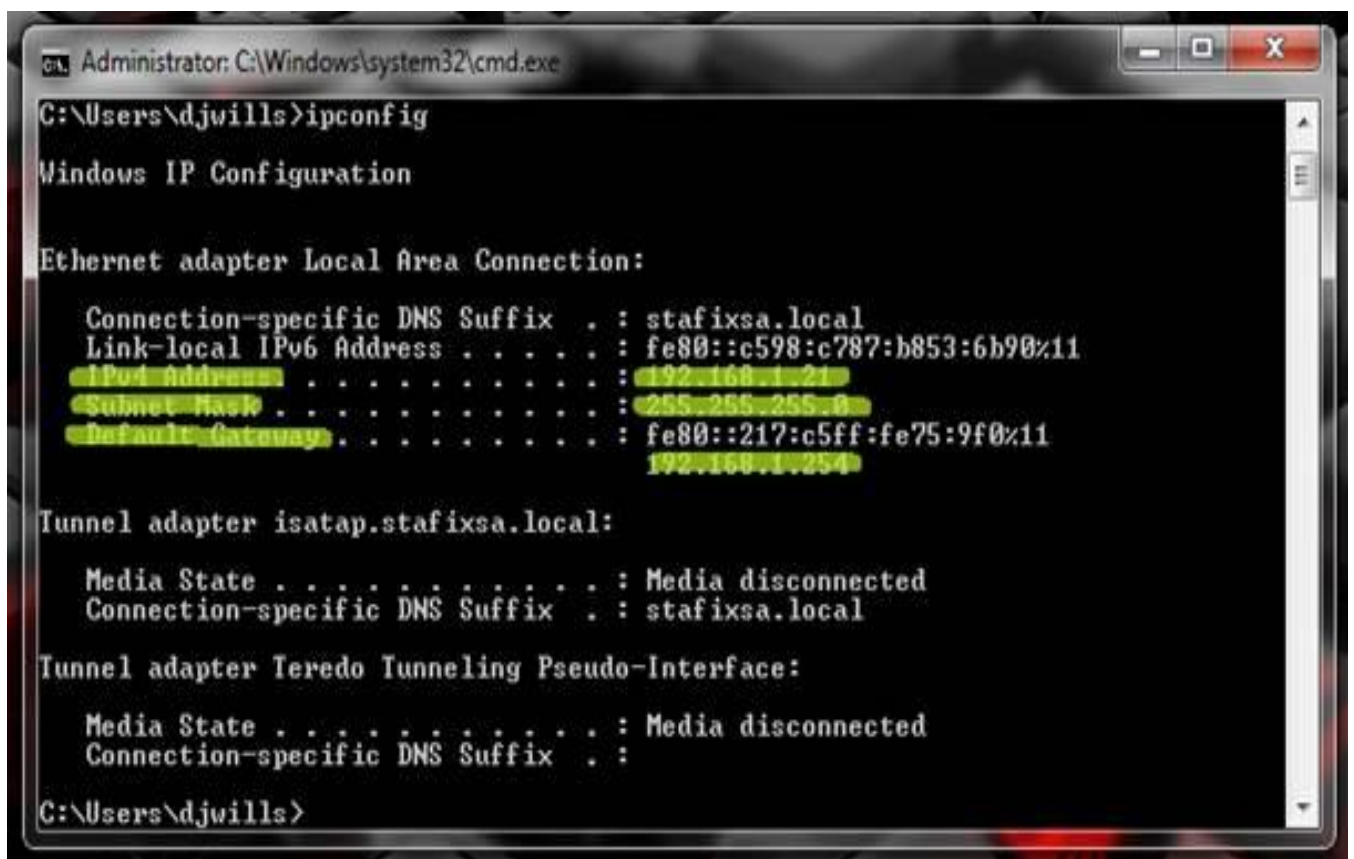
Type "ipconfig":



```
Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\djwills>ipconfig_
```

Press enter and the following will appear:



```
Administrator: C:\Windows\system32\cmd.exe

C:\Users\djwills>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : stafixsa.local
    Link-local IPv6 Address . . . . . : fe80::c598:c787:b853:6b90%11
    IPv4 Address. . . . . : 192.168.1.21
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : fe80::217:c5ff:fe75:9f0%11
                                192.168.1.254

Tunnel adapter isatap.stafixsa.local:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : stafixsa.local

Tunnel adapter Teredo Tunneling Pseudo-Interface:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

C:\Users\djwills>
```

We are trying to find the IPv4 Address, Subnet Mask and Default Gateway. Please write these three numbers down.

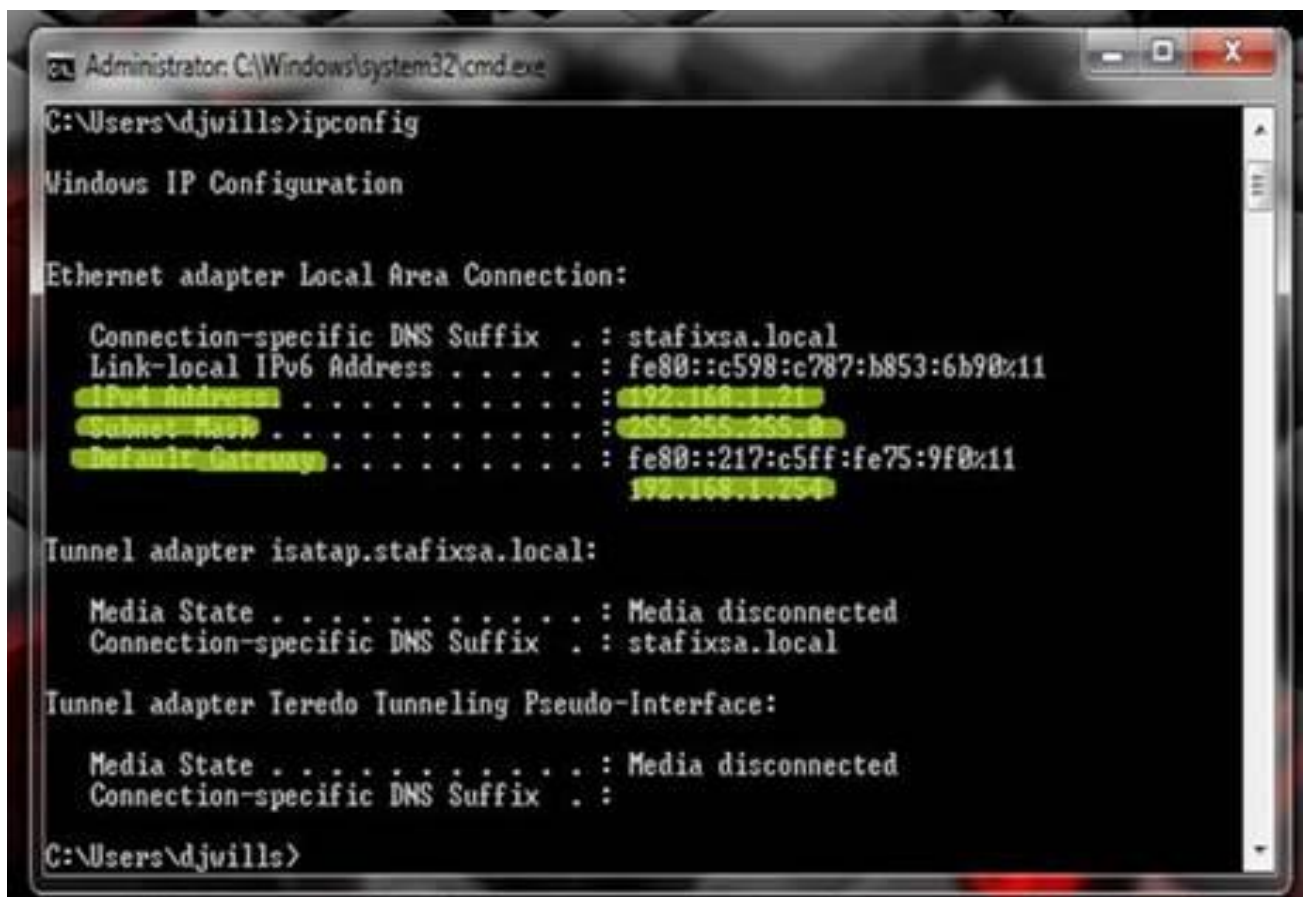
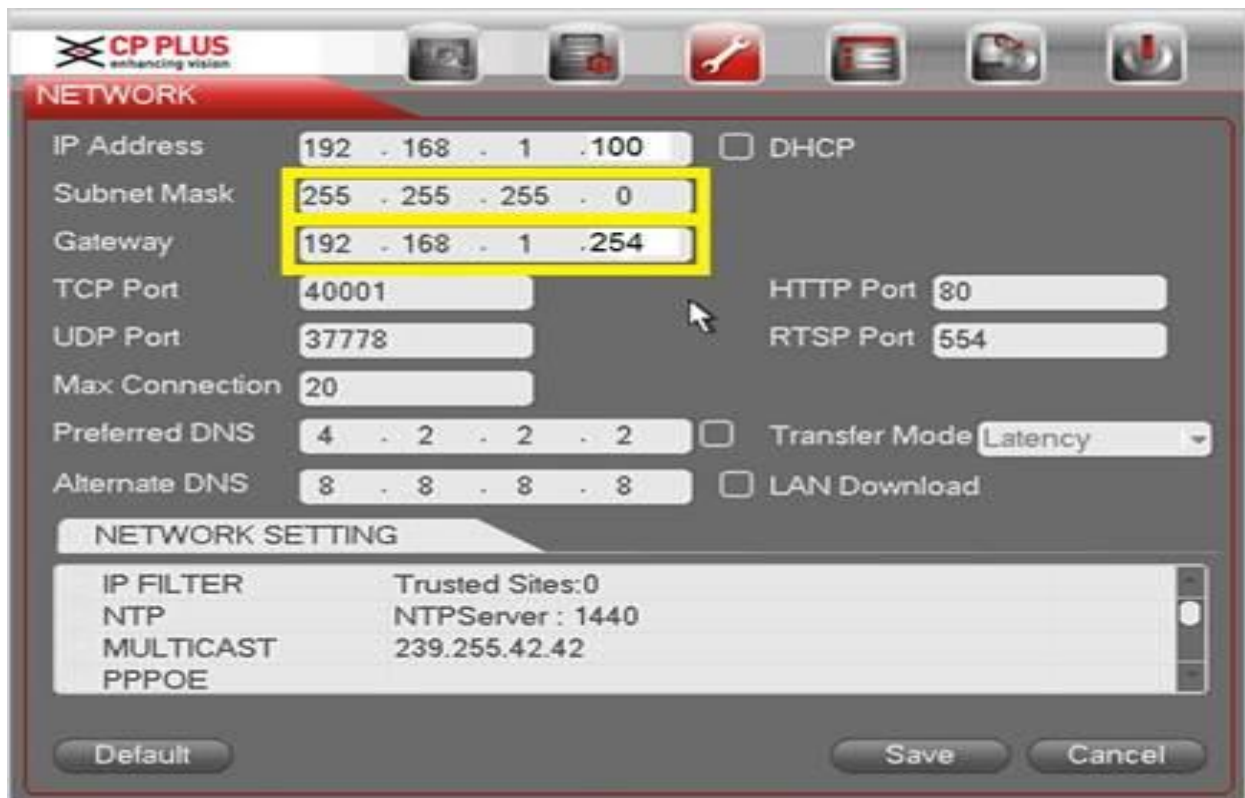
Then move over to the DVR and open the main menu - go to “settings” – “networking” and you will see the following:



You must now assign an internal IP address to the DVR. This will enable you to access the DVR within the internal network using any PC or laptop that is connected to that network. Above you will see my IPv4 Address that we got from the Command Prompt is 192.168.1.21. To keep things simple, all you need to do is change the last digit of the address E.G. 192.168.1.21 The range you can use is between 0 – 254. I normally use 100 or 200 to ensure that address has not been used. If you have a computer that has an internal address of 192.168.1.55 and you assign the DVR as the same address, there will be a conflict and the router will not be able to point you to the right device. It would be very time consuming to check all the IP addresses of all the devices in a network, especially if it's a large network so rule of thumb is if the network is reasonably small, change the last number to 100, if it is a large network, change the last number to 200:



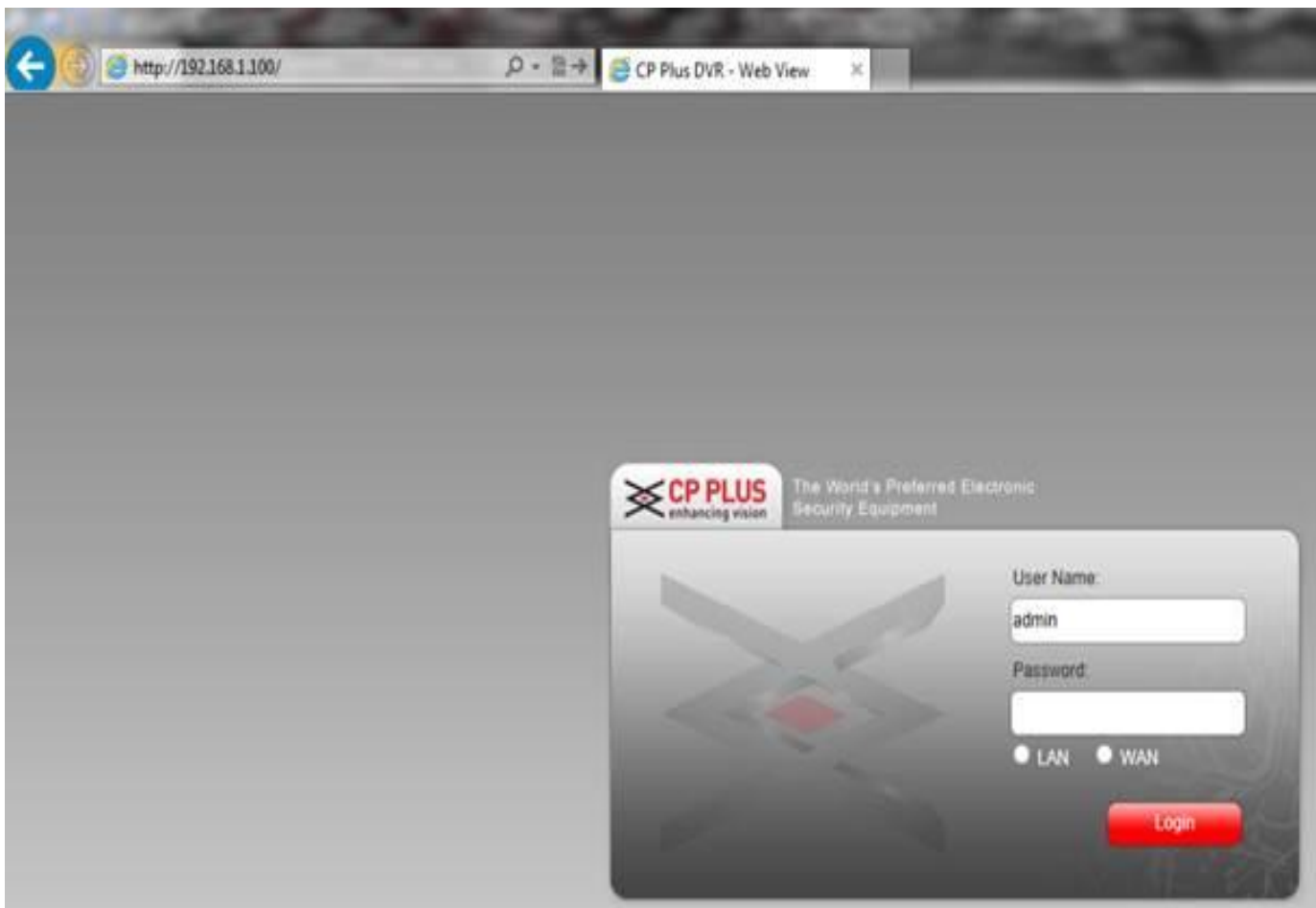
Now match the Subnet Mask and Default Gateway:



You can now access the DVR within the internal network using the Web View function by typing the Internal IP Address in the address bar of a web browser (Internet Explorer, Firefox, Chrome) please ensure you use “http” and not “https” :



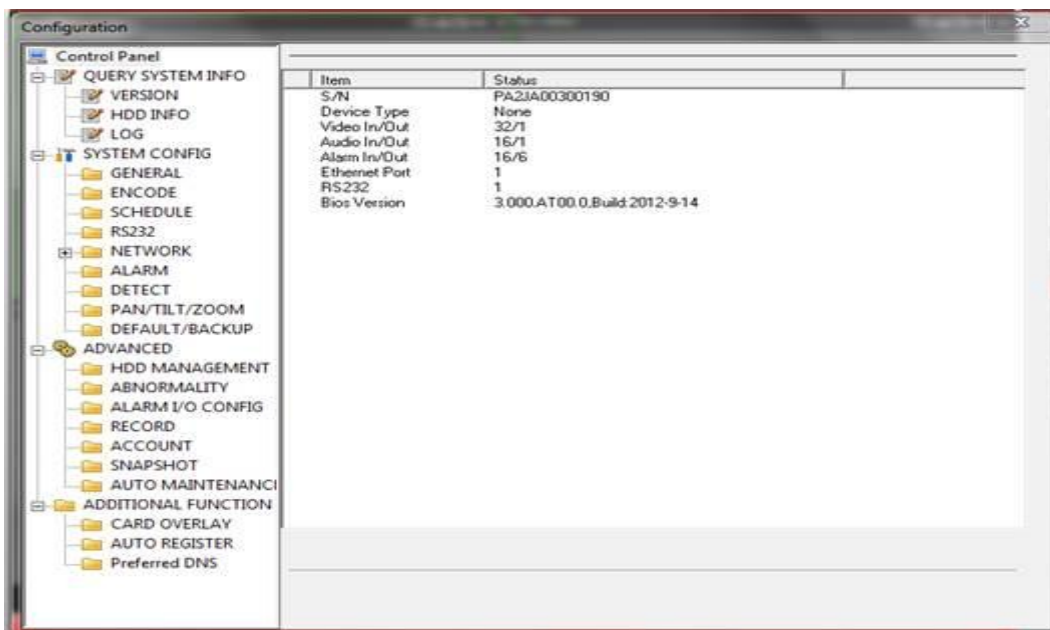
The CP Plus Web View will now open, please note that the DVR is not yet connected to the internet, it is only connected to your Internal network:



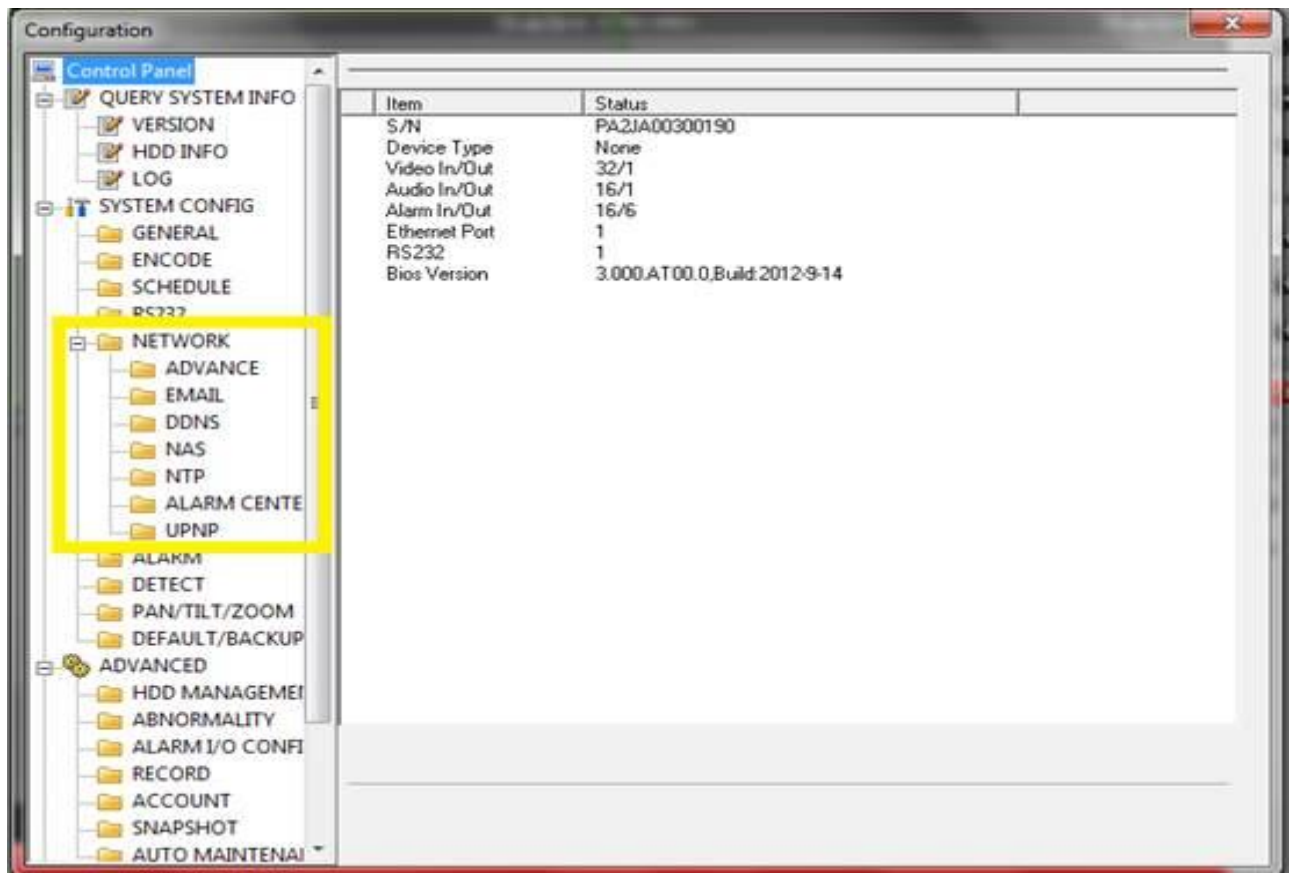
Enter in the log in details, default for CP Plus is User Name – admin, password – admin and then select LAN if it's within the internal network and select WAN if its outside/external of the network. At this point you will select LAN as the External Connectivity has not yet been setup. Then select Log In and you will see the following:



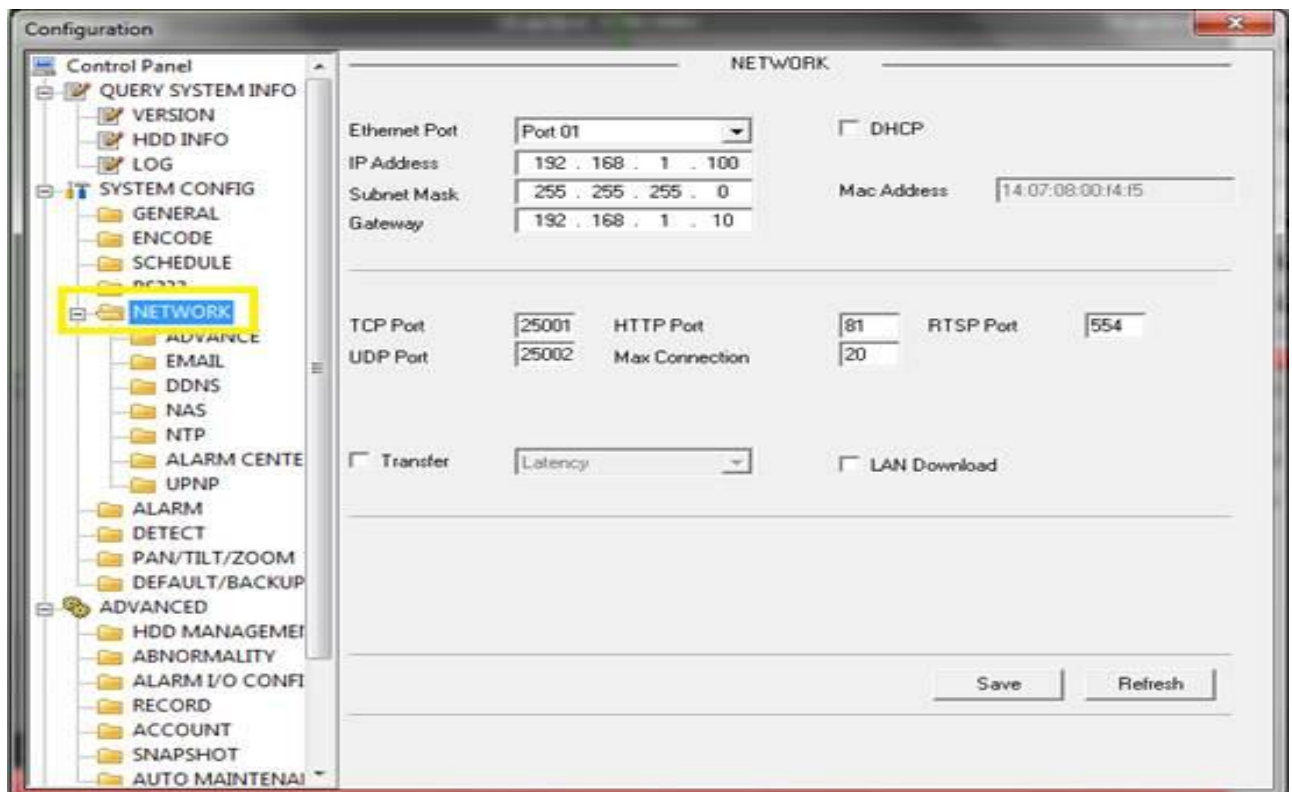
Select "config" highlighted in yellow above and the following will pop up:



Then drop down the network bar:

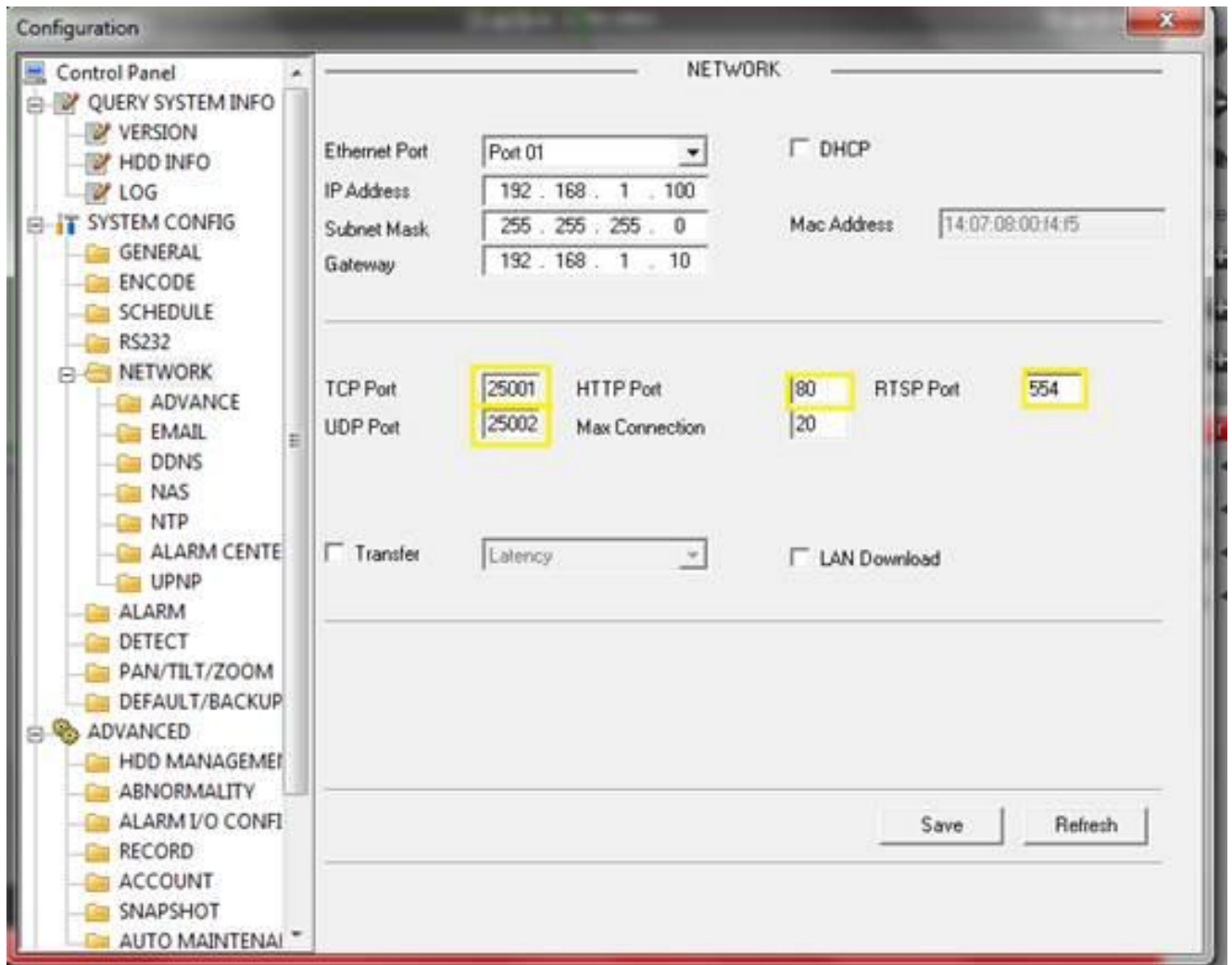


Select "network":



You will now need to Port Forward the following ports on the router:

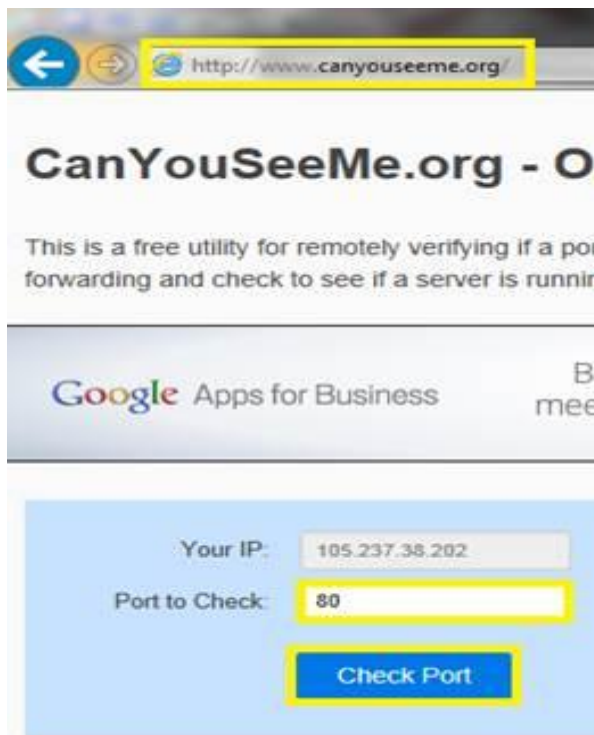
TCP – 25001
UDP – 25002
HTTP – 80
RTSP – 554



These ports are the default ports on all CP Plus DVR's I suggest that you do not change these (although you can if you want to). The only time you would need to change these ports is if the port is already being used for something on the router, the most common problem I find is that the HTTP port "80" is used already. If this is the case then change the HTTP port on the DVR to "81" (select Save on DVR) and then Port Forward port "81" on the router as well. Please note if you do change the HTTP port to anything but "80", the internal address will then change from "http://192.168.1.100/" to "http://192.168.1.100:81/" in other words you need to note the change of the HTTP port in the address if it is no longer the default port "80".

Port Forwarding can become tricky as there are many different routers on the market. Please note that not all Routers support Port Forwarding. The only support I can offer for Port Forwarding is directing you to a website called www.portforwarding.com. Here you can research how to do port forwarding on nearly every brand and model of router ever made.

Once the Port Forwarding has been done on the router you can use the following site to check that the ports are open, www.canyouseeme.org :



The screenshot shows the CanYouSeeMe.org website. The browser's address bar is highlighted in yellow and contains the URL <http://www.canyouseeme.org/>. The page title is "CanYouSeeMe.org - O". Below the title, there is a description: "This is a free utility for remotely verifying if a port forwarding and check to see if a server is running". A Google Ads banner for "Google Apps for Business" is visible. The main form has a light blue background. It contains two input fields: "Your IP:" with the value "105.237.38.202" and "Port to Check:" with the value "80". A blue "Check Port" button is located below the "Port to Check" field.

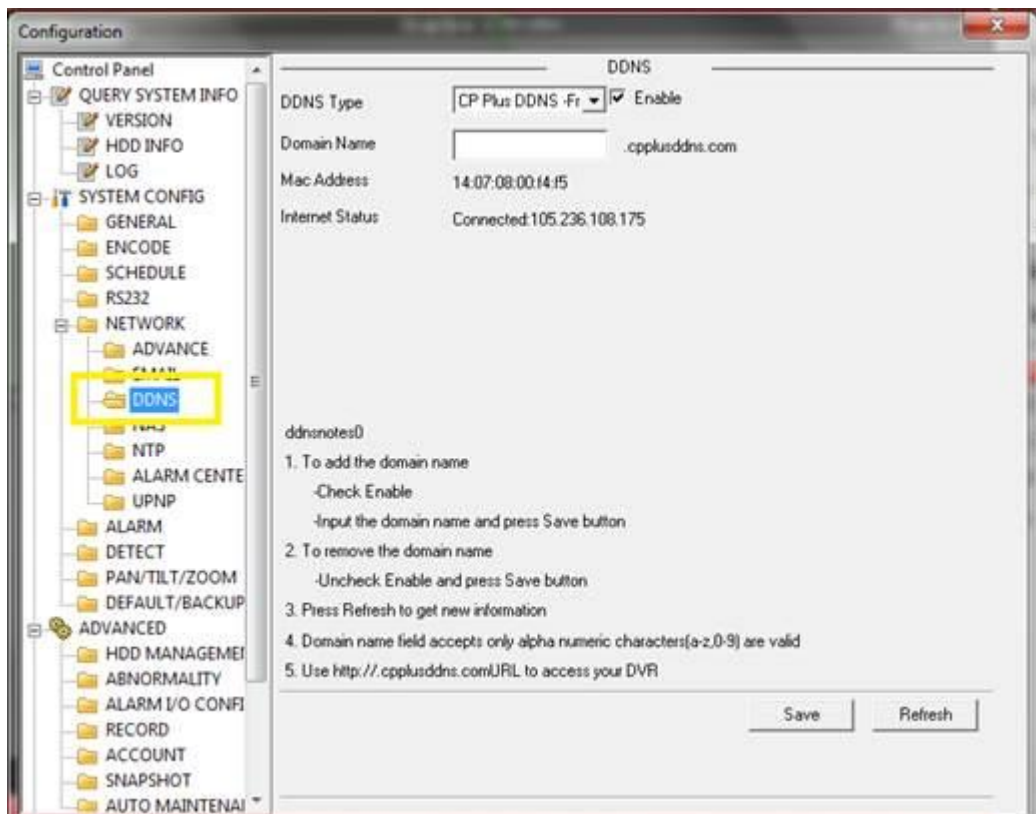
Simply enter the port number in the "Port to Check" and select "Check Port" it will then indicate if the port is open or not:



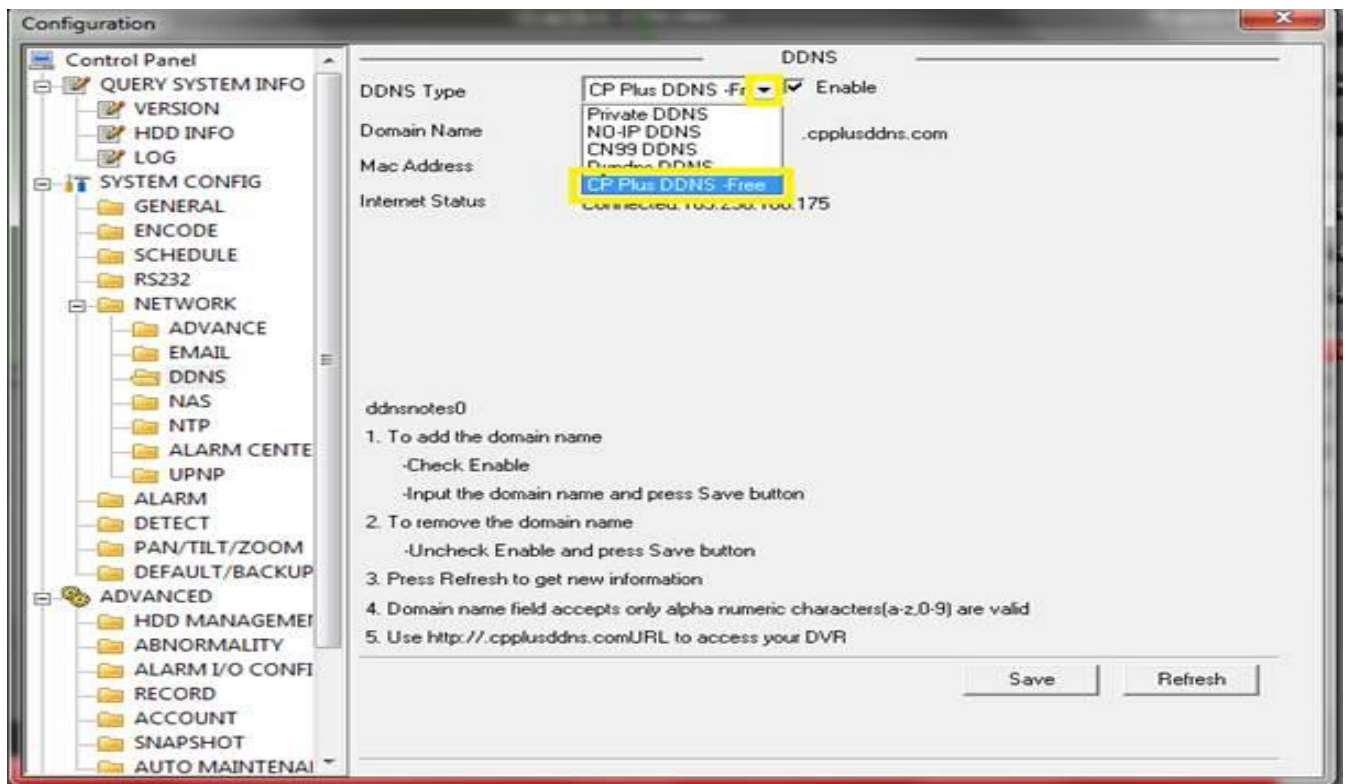
The screenshot shows the CanYouSeeMe.org website displaying a success message. A yellow-bordered box contains the text: "Success: I can see your service on 105.237.38.202 on port (80) Your ISP is not blocking port 80". Below this message, the form fields are visible: "Your IP:" with the value "105.237.38.202" and "Port to Check:" with the value "80". A blue "Check Port" button is located below the "Port to Check" field.

If it says that the port is not open, the problem is on the router side ONLY, not the DVR. Without opening the 4 ports (HTTP,TCP,UDP,RTSP) on the router, you will not be able to view the DVR from an External Network. So this must be done before moving on. In my experience, opening these ports is the most time consuming and in some cases you will need an IT Technician to help you with this.

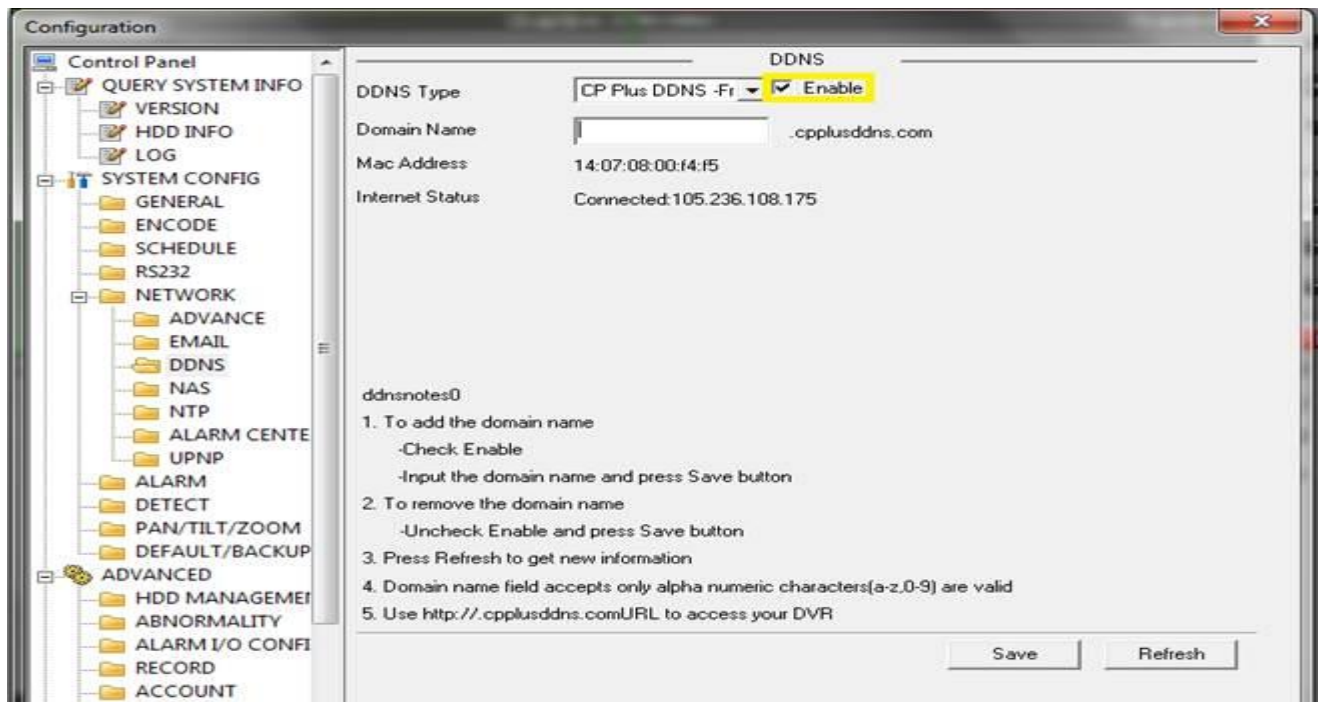
Once the ports have been opened all that is left to do is assign a DDNS Name to the DVR. CP Plus offers a free DDNS Service which is quick and easy to setup. From the Configuration box on the DVR's Web View, select "DDNS":



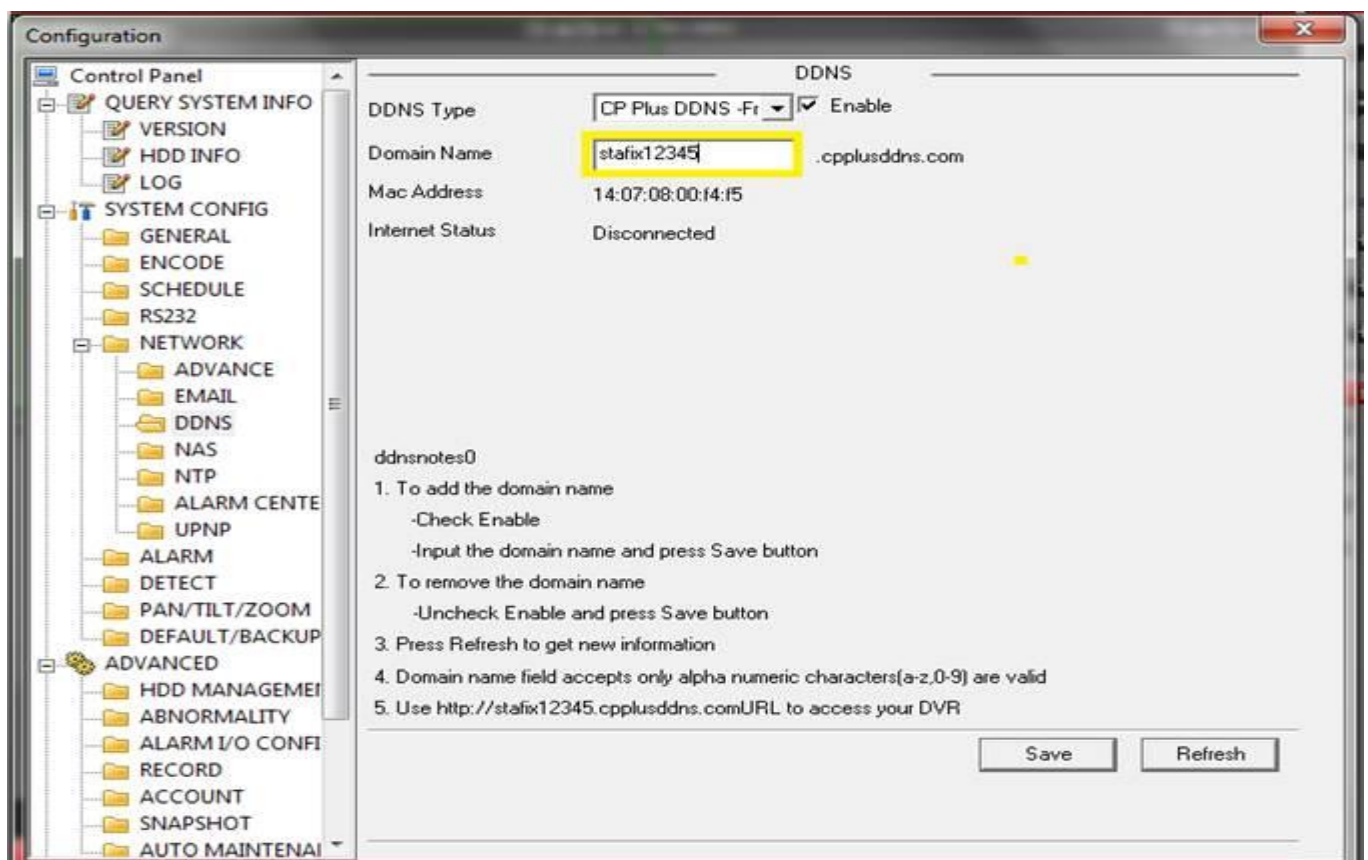
Drag down the window and select "CP PLUS DDNS – FREE":



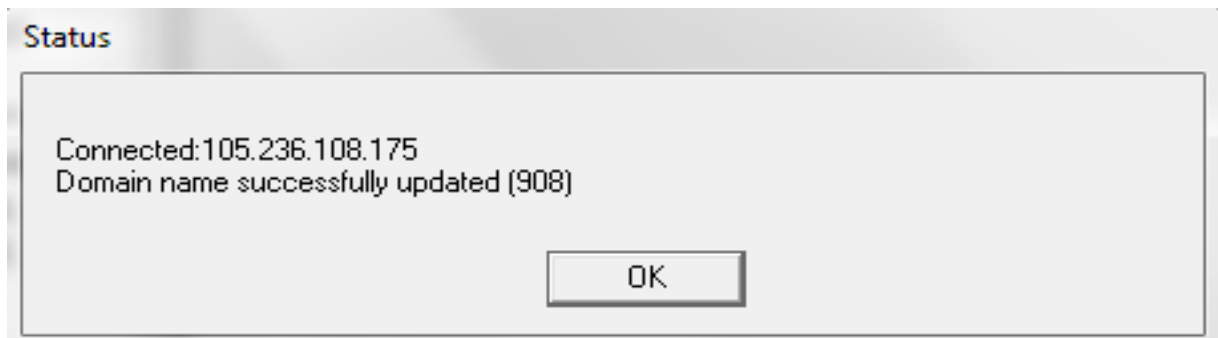
Please ensure the "Enable" box is ticked:



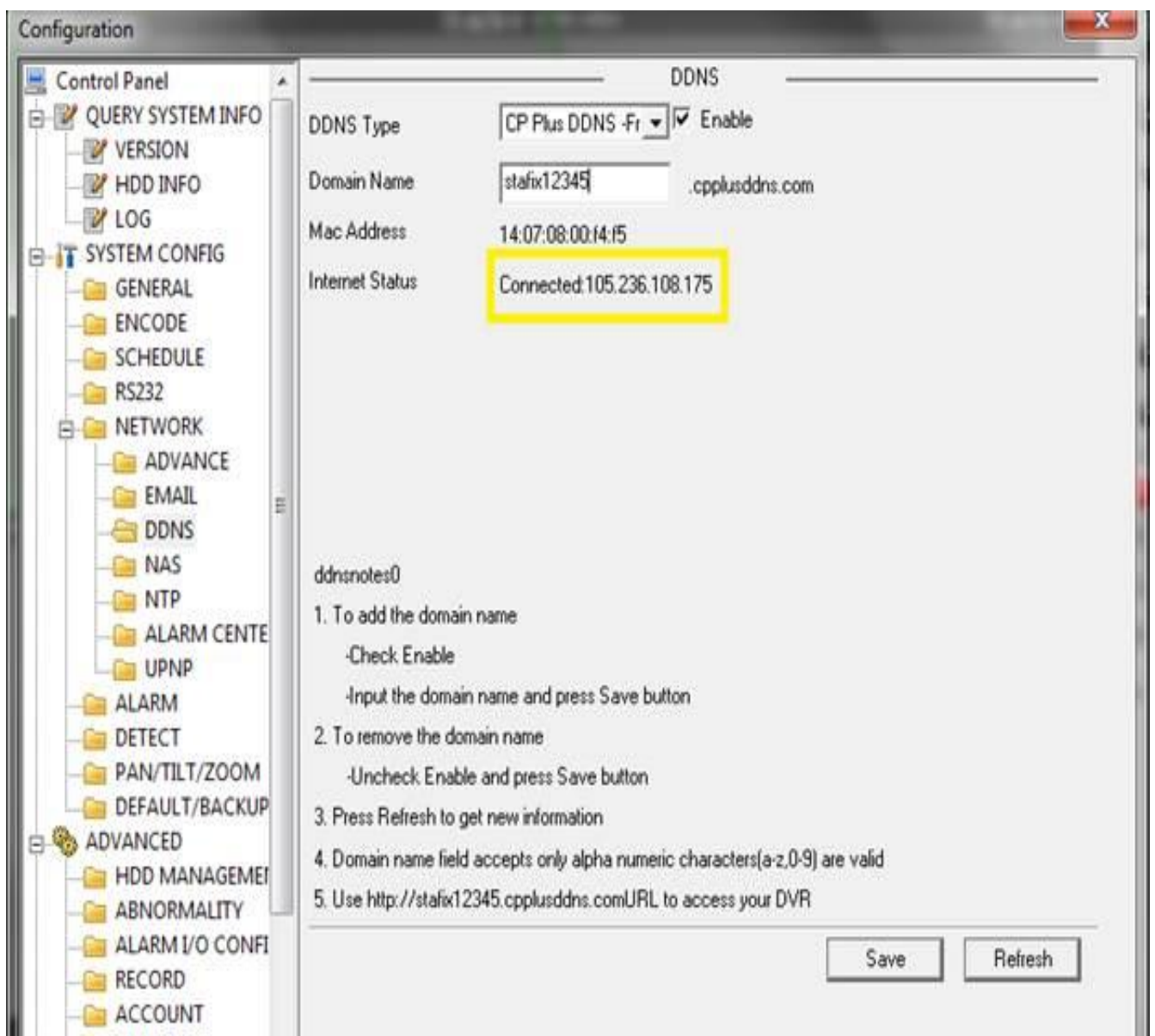
You can now assign a DDNS Name to the DVR. Choosing a DDNS name is exactly like choosing an email address, it must be unique and preferably something that is personal to you (or the client):



Once you have chosen a name, simply click "Save" at the bottom and you should get the following pop up:



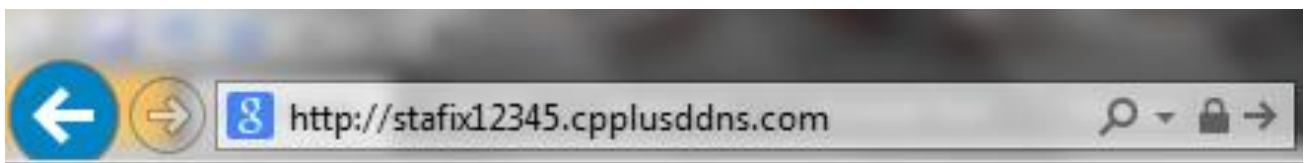
The Page will then display as follows:



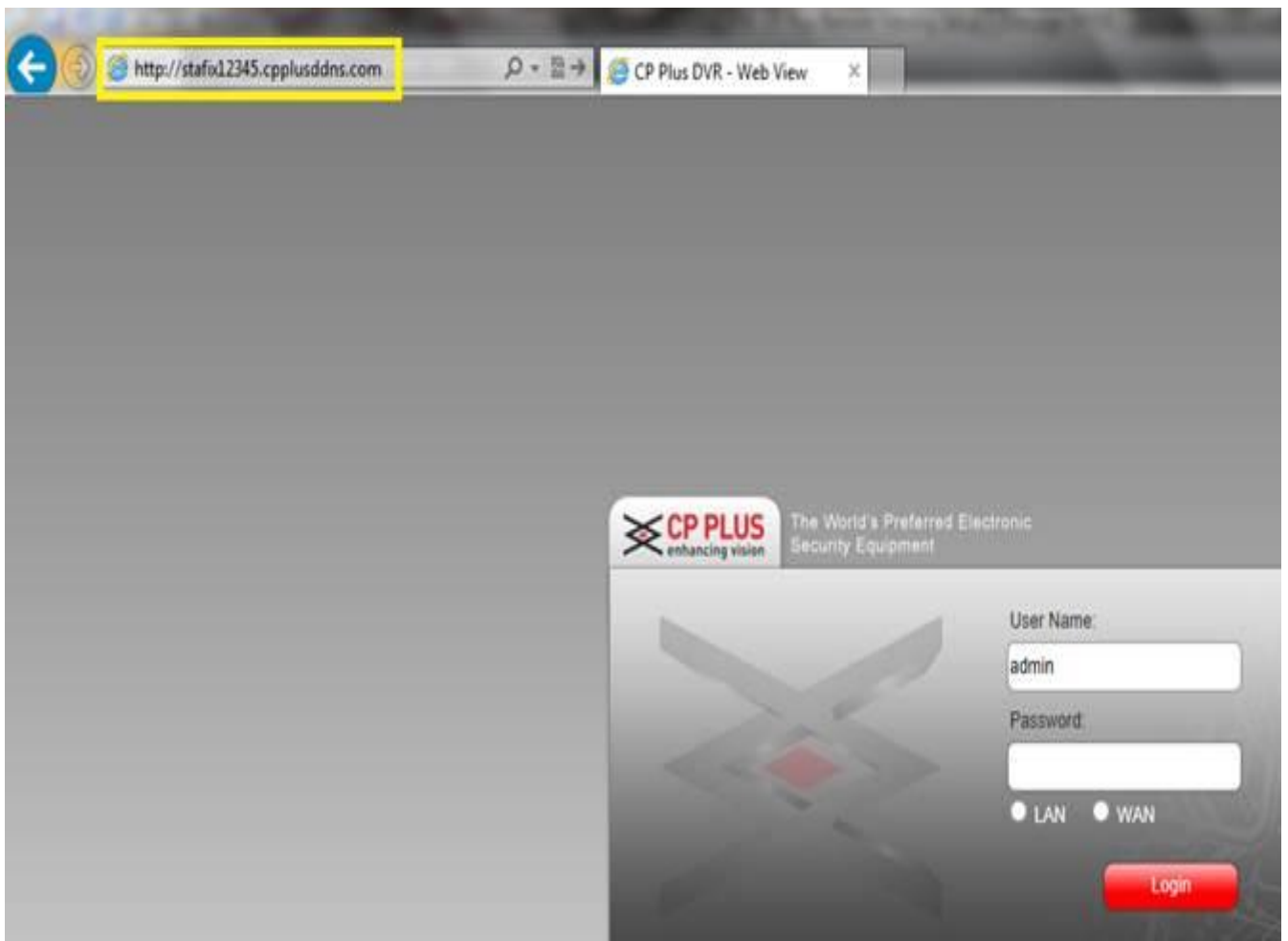
If the DVR does not connect and try update the DDNS name, instantly that means that the DVR cannot connect to the Internet and the problem could be that the router does not have a connection but most likely the Port Forwarding has not been done correctly.

Once the DDNS Name has been correctly assigned you can now access the DVR from any computer, laptop or smartphone that has an internet connection. Please note the Internal IP Address "http://192.168.1.100/" is used to access the DVR within the Network (Internally) and the DDNS Name "stafix12345.cpplusdns.com" is used to access the DVR from anywhere external from the Network the DVR is connected to. Please note that if the HTTP Port is not "80" the DDNS Name will then read "stafix12345.cpplusdns.com:81" again you must indicate what the HTTP port has been changed to if it is not the default "80" port.

To view the DVR Externally from the Network on a PC simply put the DDNS Name in the Address Bar of a Web Browser:



And it will bring you to the same Web View for the DVR:



Smartphone Setup

To access the DVR using a smartphone you will need to download:

GCMOB – Android – Free from the Google Play Store

ICMOB – Apple/iPhone – Free from the iStore

You will also see there are HD Versions, those are used for Tablets/Ipads.

Once installed open “device manager” select “add” and a box will appear requesting the following:

Name	User Defined e.g. DVR 1
Server	Stafix12345.cpplusddns.com (DDNS NAME)
Port	25001 (TCP PORT)
User Name	admin (default)
Password	admin (default)
Channels	4/8/16/32 (depends on DVR)

Select “save” and go back to the main menu and select “Real Time Monitor”, from there you can view any 4 camera’s at any given time.

Please note that you cannot view the DVR on your smartphone if you are connected to the same network as the DVR. If you wish to do so, you must change the “Server” in the box above from the External DDNS Name to the Internal IP Address (192.168.1.100)