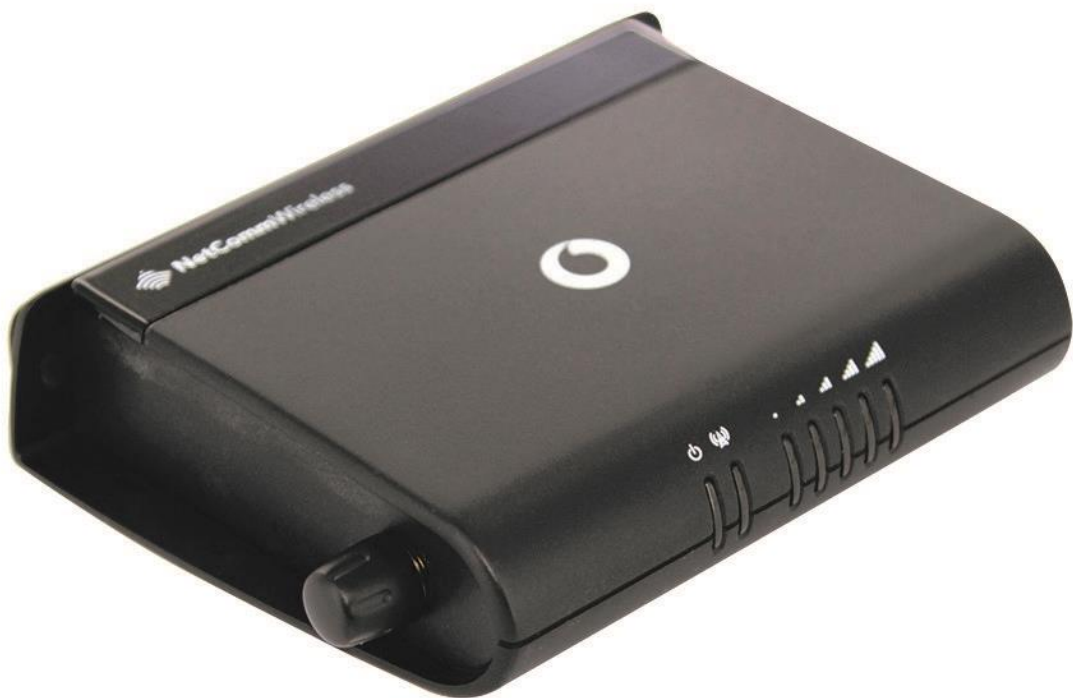


Vodafone MachineLink

Remote Administration Configuration Guide



Document history

This guide covers the following products:

- Vodafone MachineLink 3G (NWL-10)
- Vodafone MachineLink 3G Plus (NWL-12)
- Vodafone MachineLink 4G (NWL-22)

Ver.	Document description	Date
v. 1.0	Initial document release.	March 2013
v. 1.1	Added note about publicly routable IP addresses and troubleshooting section	June 2013
v. 2.0	Revised content based on Firmware version 2.0.18.21	September 2016

Table i - Document revision history



Note – Before performing the instructions in this guide, please ensure that you have the latest firmware version installed on your router. Visit <http://vodafone.netcommwireless.com> to download the latest firmware.



Note – The functions described in this document require that the router is assigned with a publicly routable IP address. Please ensure that your mobile carrier has provided you with a publicly routable IP address before performing the instructions in this document.

Copyright

Copyright© 2016 NetComm Wireless Limited. All rights reserved.

Copyright© 2016 Vodafone Group Plc. All rights reserved.

The information contained herein is proprietary to NetComm Wireless and Vodafone. No part of this document may be translated, transcribed, reproduced, in any form, or by any means without prior written consent of NetComm Wireless and Vodafone.

Trademarks and registered trademarks are the property of NetComm Wireless Limited or Vodafone Group or their respective owners. Specifications are subject to change without notice. Images shown may vary slightly from the actual product.




Note – This document is subject to change without notice.


Contents


Introduction	4
Enabling Remote Administration	4
Dynamic DNS	7
Troubleshooting.....	10

Notation

The following symbols are used in this user guide:

 The following note requires attention.

 The following note provides a warning.

 The following note provides useful information.

Introduction

Remote administration allows you to access the router configuration page from a computer connected to the internet. This can also be used to enable your cellular carrier to check your settings if you experience connection issues.



Note – Before enabling remote access to your router, we recommend changing the password for both the “root” and “admin” accounts. For an additional level of security, you may also wish to restrict access to a specific IP address or subnet.

Please refer to the product user manual for further information.

Enabling Remote Administration

Open a web browser and navigate to the LAN IP address of the MachineLink router. The default is <http://192.168.1.1>.

- 2 Log in to the router with the following credentials:

Username: **root**

Password: **admin**

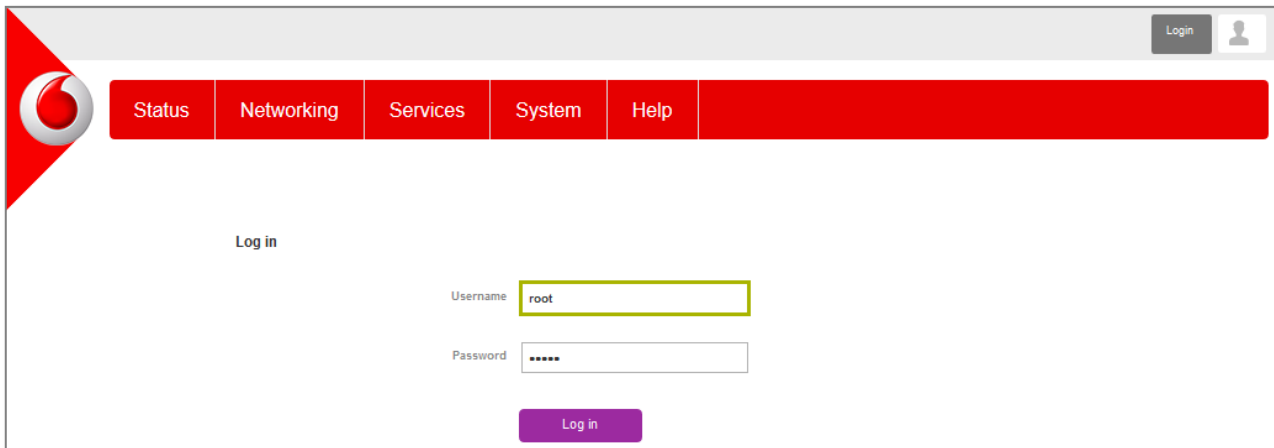


Figure 1: Login page

- From the menu bar along the top of the screen, click on System then open the Administration menu on the left and select **Administration settings** from its drop down menu.

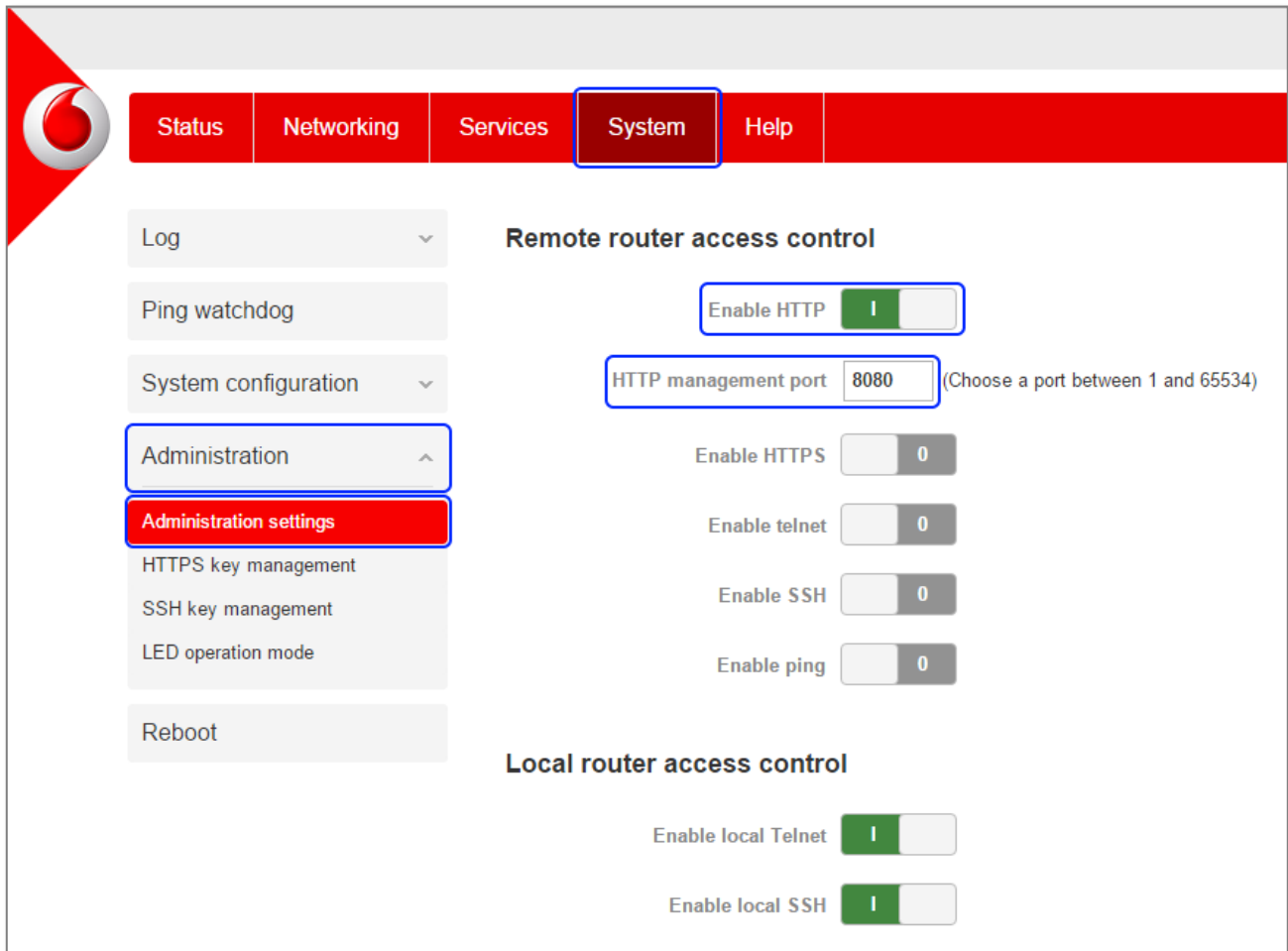
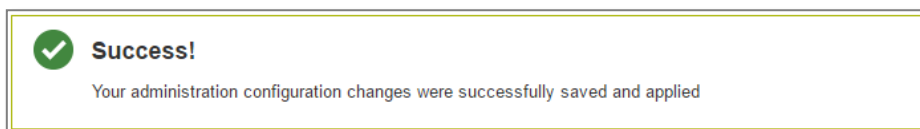


Figure 2 – System – Administration menu options and Administration Settings page

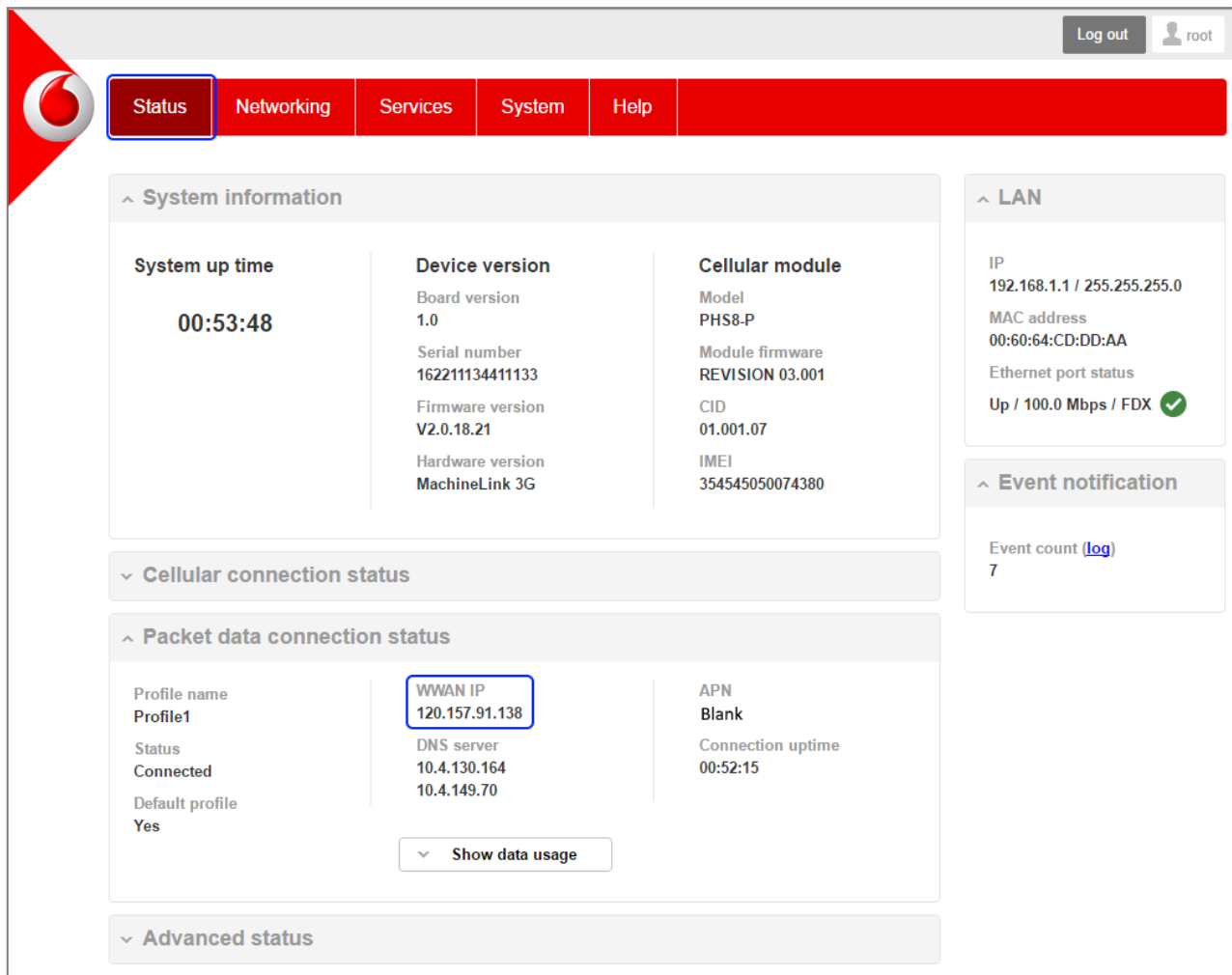
- Enable the **Enable HTTP** checkbox and
- Enter the **HTTP management port number** you wish to use in the adjacent field.
You may use any port between 1 and 65534.
- Click the **Save** button.

Save



Confirm remote administration is operational

- 1 Return to the Status page by clicking on the **Status** link from the menu bar.
- 2 Note the **WWAN IP** address highlighted in the screenshot below.



The screenshot shows the 'Status' page of a NetCommWireless router. The 'Status' menu item is highlighted in the top navigation bar. The main content area is divided into several sections:

- System information:**
 - System up time: 00:53:48
 - Device version: Board version 1.0, Serial number 162211134411133, Firmware version V2.0.18.21, Hardware version MachineLink 3G
 - Cellular module: Model PHS8-P, Module firmware REVISION 03.001, CID 01.001.07, IMEI 354545050074380
- Cellular connection status:** (Collapsed)
- Packet data connection status:**
 - Profile name: Profile1
 - Status: Connected
 - Default profile: Yes
 - WWAN IP: 120.157.91.138 (highlighted with a blue box)
 - DNS server: 10.4.130.164, 10.4.149.70
 - APN: Blank
 - Connection uptime: 00:52:15
 - Show data usage button
- Advanced status:** (Collapsed)
- LAN:**
 - IP: 192.168.1.1 / 255.255.255.0
 - MAC address: 00:60:64:CD:DD:AA
 - Ethernet port status: Up / 100.0 Mbps / FDX (with a green checkmark)
- Event notification:**
 - Event count (log): 7

Figure 3 – Status page - Local IP

- 3 Open a new browser window or tab and navigate to <http://<your external IP address>:<port number>>.

In the example above, we would enter <http://120.157.91.138:8080>.

Remote administration configuration is now complete.



Note – If your IP address is not publicly routable, you will not be able to access it remotely. Refer to the troubleshooting section of this guide for more details..



Note – Before performing the instructions in this guide, please ensure that you have the latest firmware version installed on your router.

Visit <http://vodafone.netcommwireless.com> to download the latest firmware.

Dynamic DNS

If your service provider assigns you a dynamic IP address, that is, an address which changes each time you connect, you need to configure a Dynamic DNS service in order to access the router remotely since your address will not always be the same.

The dynamic DNS router function can be used to remotely connect to the router using a hostname in place of the dynamic public IP address assigned on some networks.

To do this you will need a dynamic DNS account from one of the following DDNS providers.

- www.dhs.org
- www.dyndns.org
- www.dyns.cx
- www.easydns.com
- www.justlinux.com
- www.ods.org
- www.tzo.com
- www.zoneedit.com

To configure the Dynamic DNS settings on the MachineLink router:

- 1 From the menu bar along the top of the screen, click **Services** then select **Dynamic DNS** from the menu on the left.

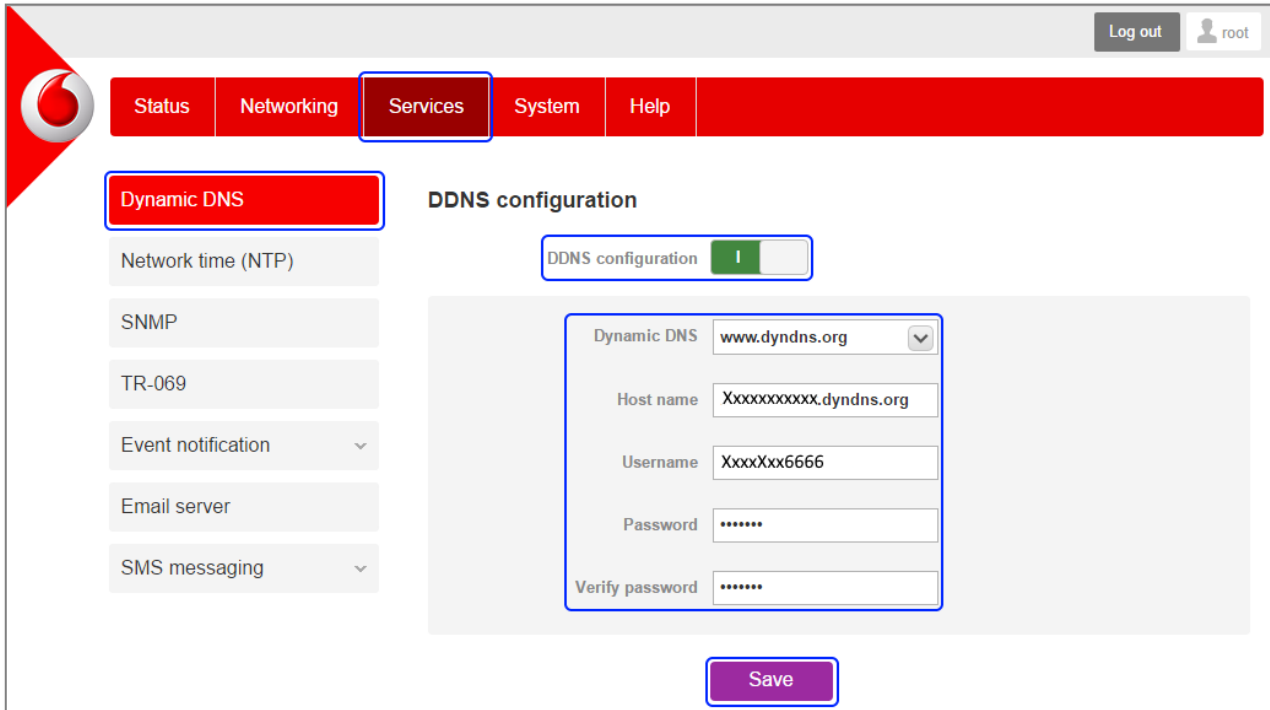
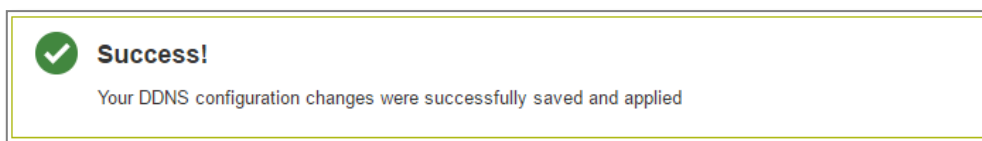


Figure 4: Dynamic DNS configuration settings

- 2 Click the **DDNS configuration** toggle key to set it to the **ON** position.
- 3 Enter your dynamic DNS account credentials
- 4 Click the **Save** button.



You can now access the device using the Dynamic DNS address.

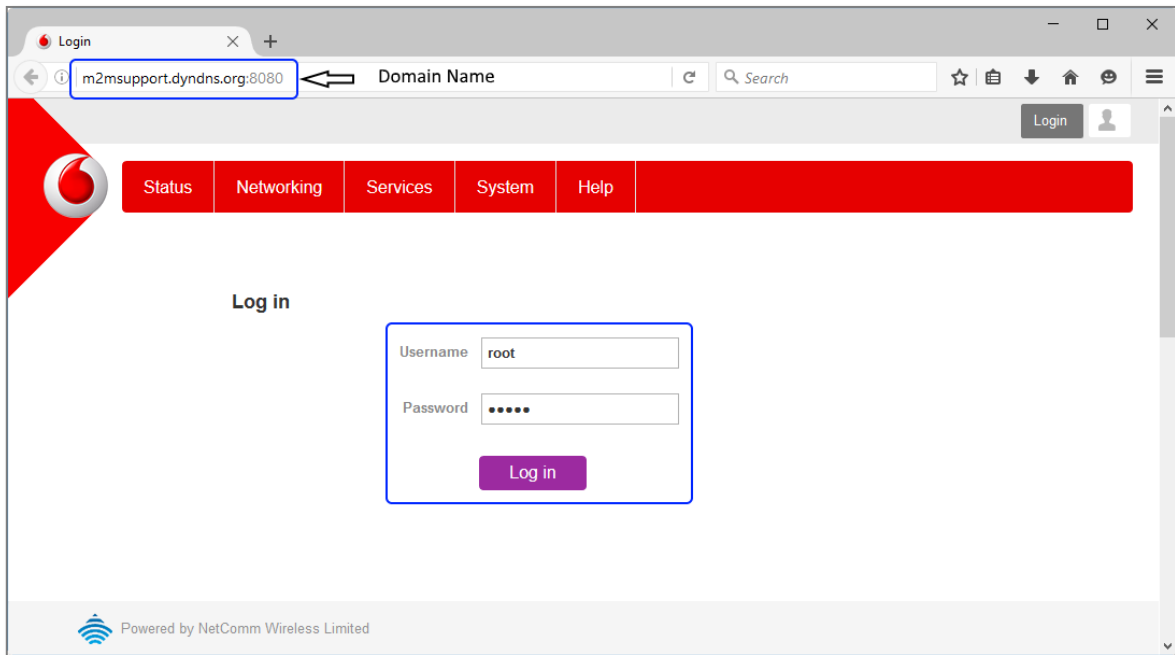
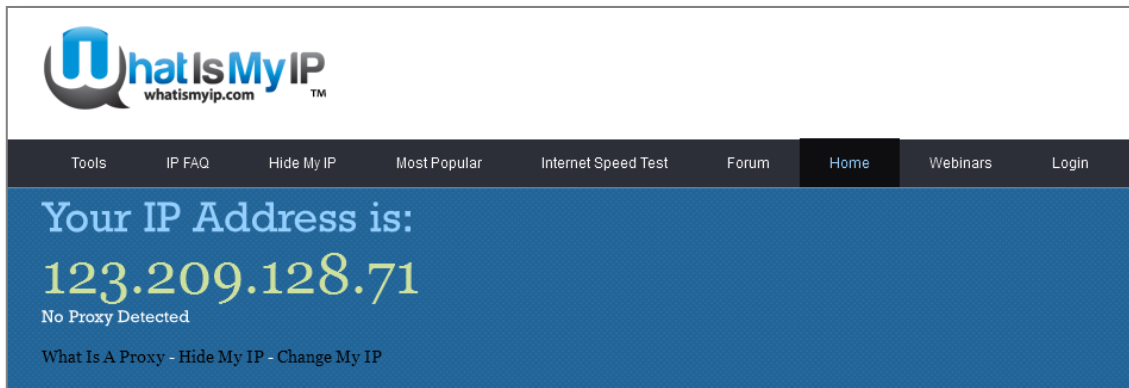


Figure 5: Logging in to the router using Dynamic DNS

Troubleshooting

“I can’t connect to a machine behind my router.”

It’s possible that you do not have a publicly routable IP address. A quick test you can perform to find out if it is publicly routable is to navigate to www.whatismyip.com in your web browser and compare the IP address displayed with the WWAN IP address on the Status page.



If they are the same, your IP address is publicly routable and you should be able to connect remotely. If you are still having problems and the IP addresses match, check your configuration again and check for any firewall rules on either side which could be blocking the connection.

If they differ, your carrier has provided you with a private IP address behind a NAT gateway and this prohibits you from being able to establish a direct connection with the router. In this case, please contact your cellular carrier to discuss how you can obtain a publicly routable IP address.