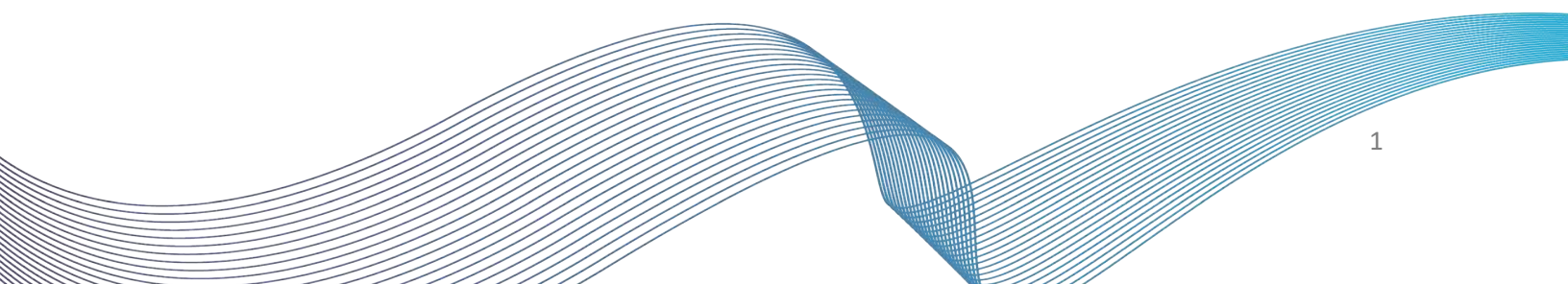




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- LAN clients 5
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- WPS connection.....9
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Router login

To log into your router, open a web browser (for example, Google Chrome, Microsoft Edge, Mozilla Firefox etc.). Type **192.168.1.1** in the address bar of the browser. You should then see a login page (Image 1). In the Username field, type **admin**. In the Password field, type the password shown on the sticker on the back of your router. Once all fields are populated, press **Login**.

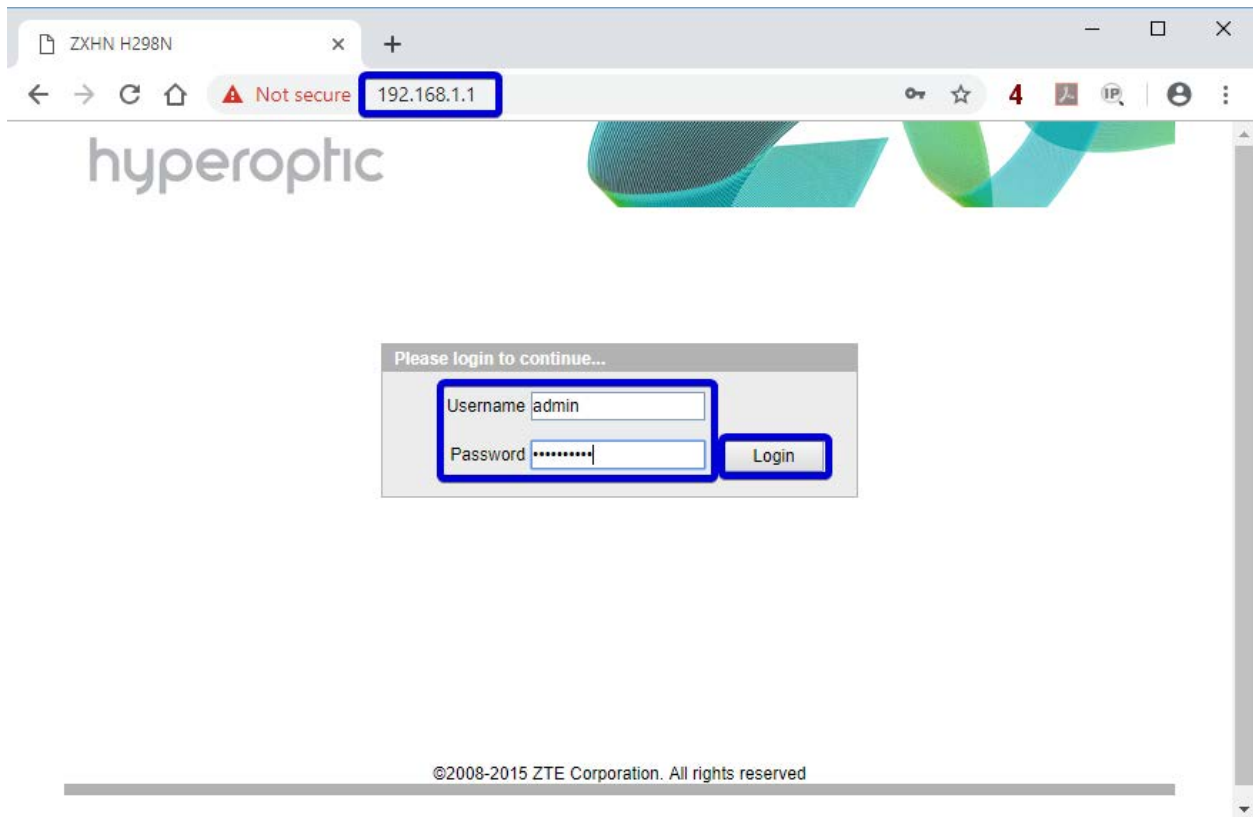
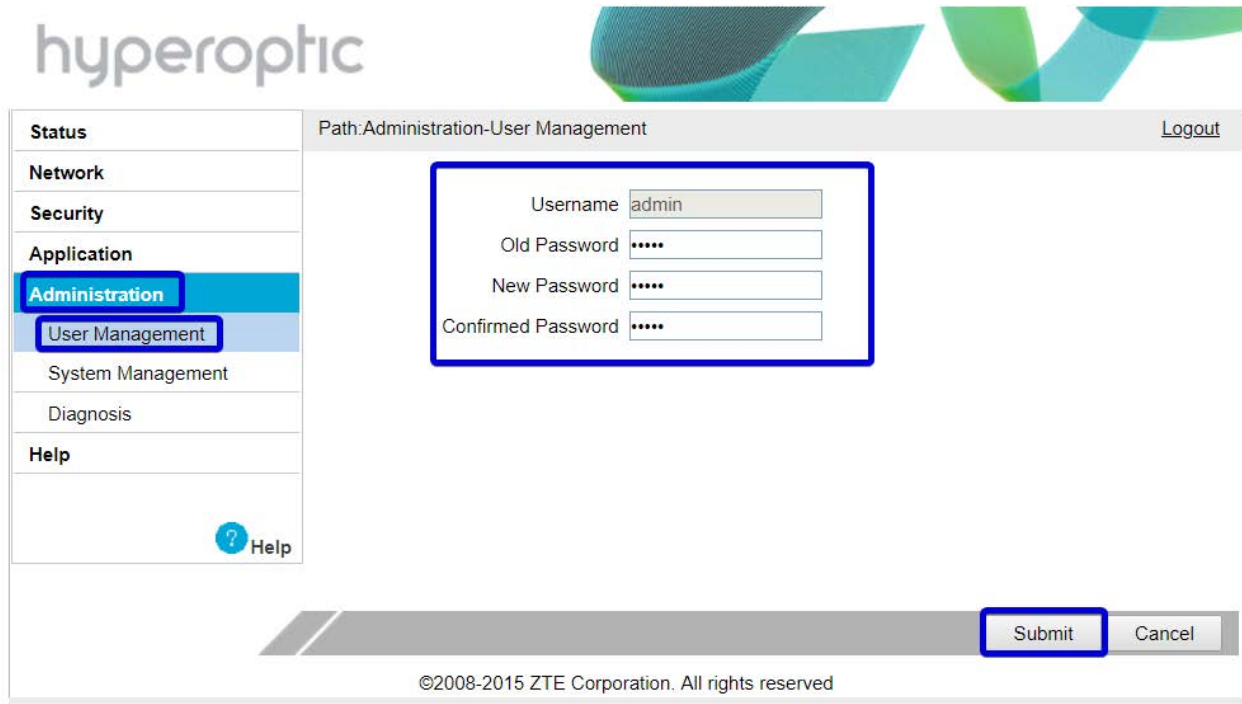


Image 1. Router H298N login screen

Changing admin password

To change your admin login password, log into your router (see page 2) and navigate to **Administration > User Management**. Once the new details are entered, click **Submit**. See Image 2.



The screenshot displays the hyperoptic router's administrative web interface. On the left is a navigation menu with categories: Status, Network, Security, Application, Administration, and Help. Under 'Administration', 'User Management' is highlighted. The main content area is titled 'Path:Administration-User Management' and includes a 'Logout' link. A form for changing the password is centered, enclosed in a blue box. The form fields are: Username (pre-filled with 'admin'), Old Password (masked with dots), New Password (masked with dots), and Confirmed Password (masked with dots). At the bottom right of the form area are 'Submit' and 'Cancel' buttons, with 'Submit' also highlighted by a blue box. The footer contains the copyright notice: '©2008-2015 ZTE Corporation. All rights reserved'.

Image 2. Changing admin password

Reboot and factory reset

You can reboot your router and restore it to factory settings by logging in (see page 2) and navigating to **Administration > System Management > System Management**. Then select either **Reboot** or **Restore Default**. See Image 3.

Please note, factory reset isn't recommended as it can shorten the life of a router if used often. Also, factory reset will delete any user-made configuration, such as wifi SSID, wifi password, port forwarding rules, etc.

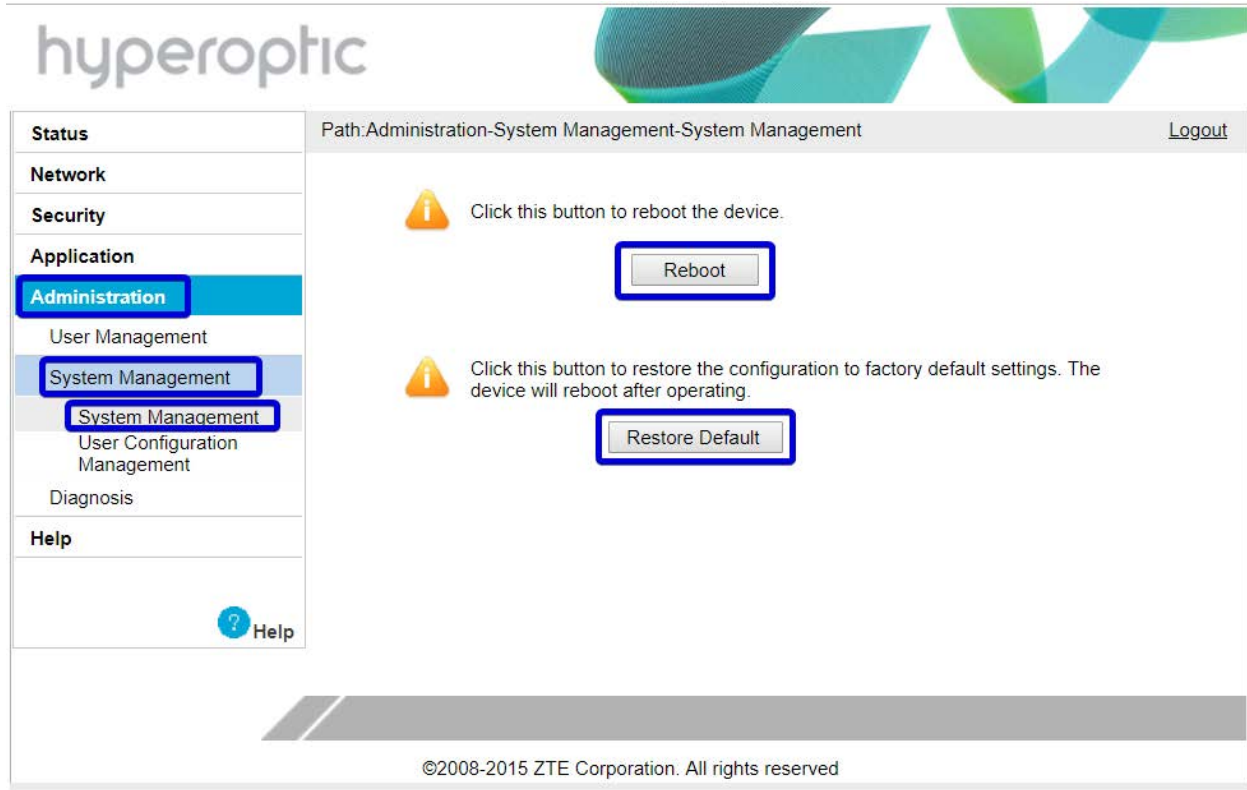
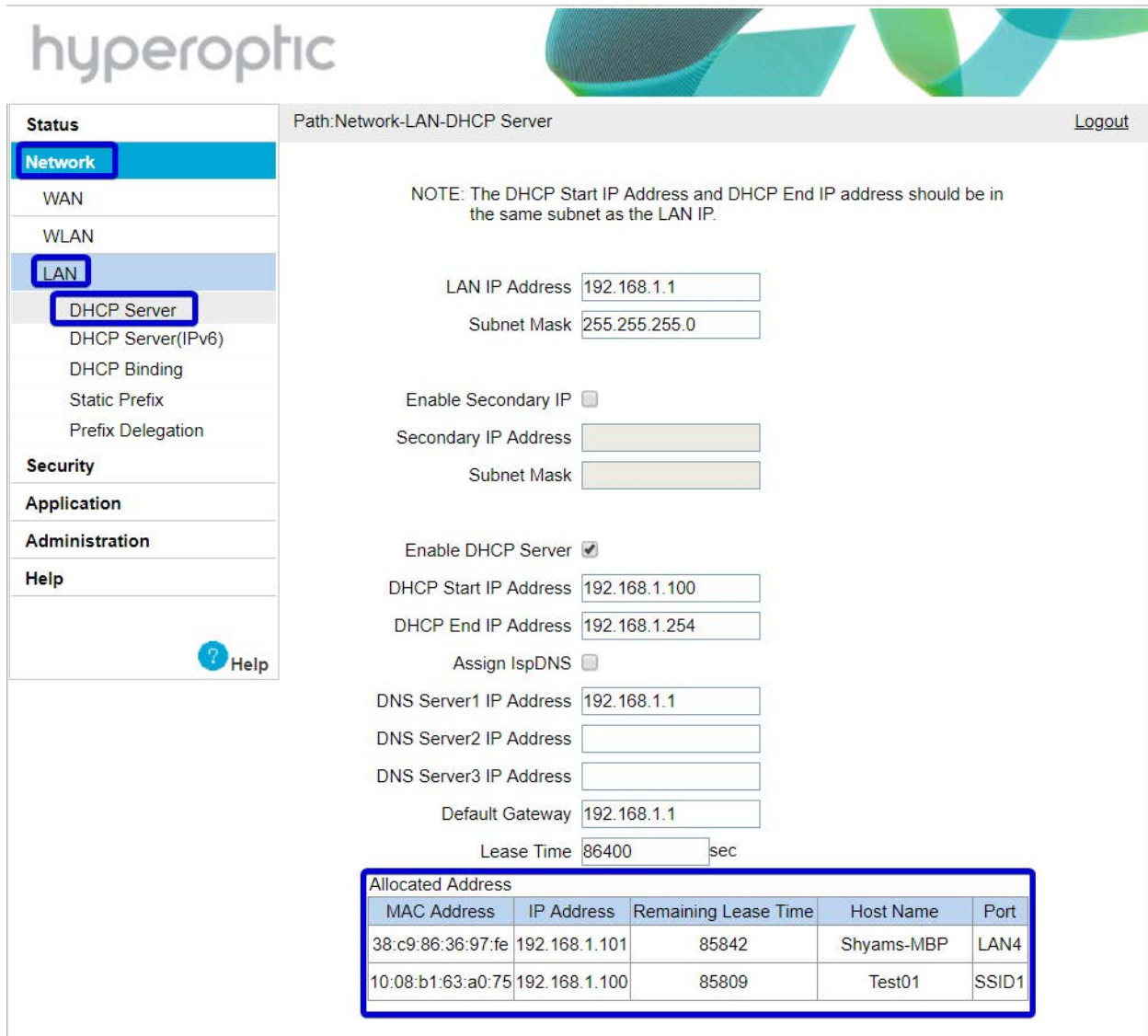


Image 3. Reboot and factory reset

LAN clients

The number of LAN (Local Area Network) clients, their MAC addresses and associated IPv4 addresses can be checked once you're logged into your router (see page 2). Navigate to **Network > LAN > DHCP Server**. See Image 4.



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Status Path: Network-LAN-DHCP Server [Logout](#)

NOTE: The DHCP Start IP Address and DHCP End IP address should be in the same subnet as the LAN IP.

LAN IP Address

Subnet Mask

Enable Secondary IP ☐

Secondary IP Address

Subnet Mask

Enable DHCP Server ☒

DHCP Start IP Address

DHCP End IP Address

Assign IspDNS ☐

DNS Server1 IP Address

DNS Server2 IP Address

DNS Server3 IP Address

Default Gateway

Lease Time sec

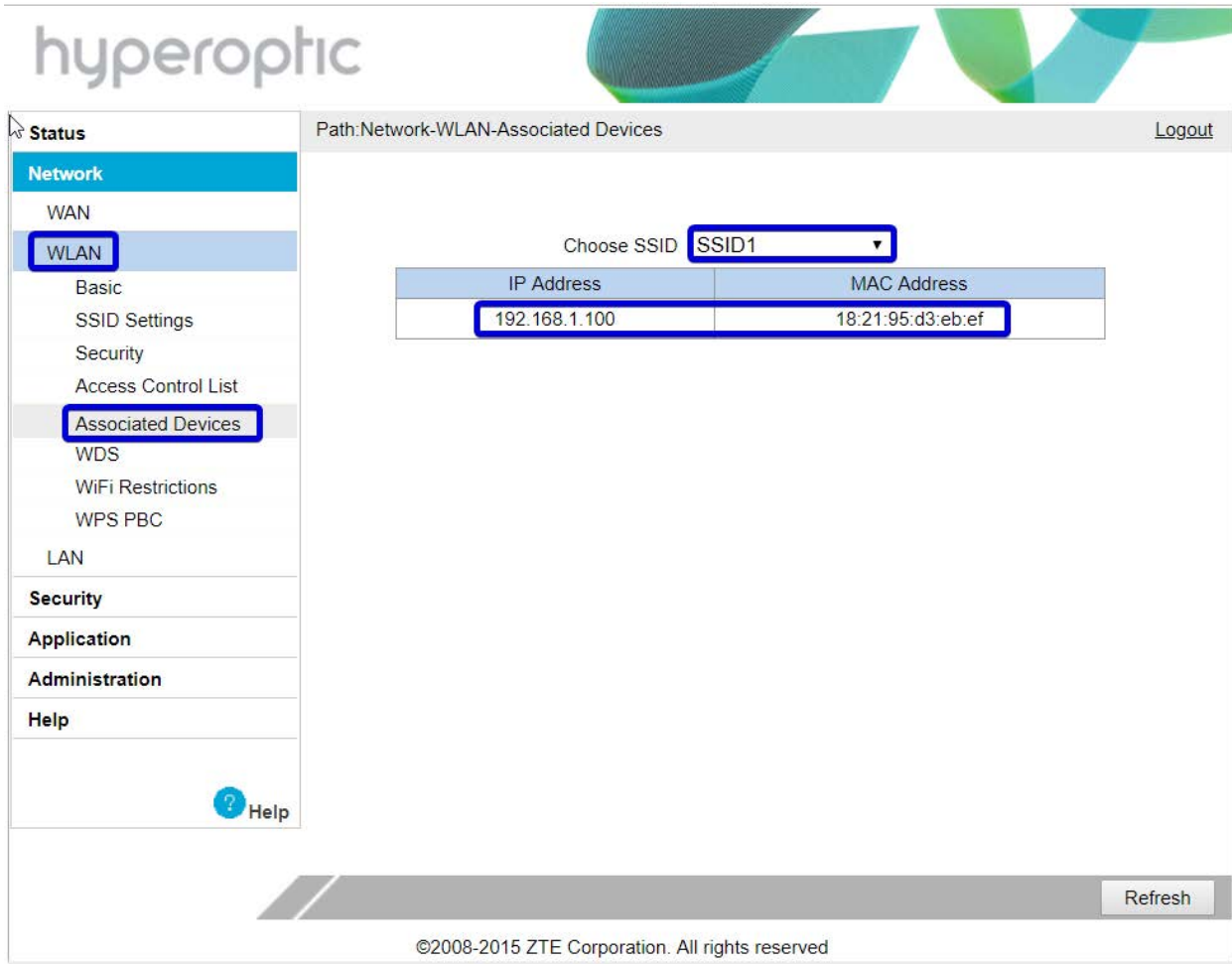
Allocated Address				
MAC Address	IP Address	Remaining Lease Time	Host Name	Port
38:c9:86:36:97:fe	192.168.1.101	85842	Shyams-MBP	LAN4
10:08:b1:63:a0:75	192.168.1.100	85809	Test01	SSID1

Image 4. List of LAN clients

Please note, if a LAN client is using a static IP and connects via cable, it won't be listed here.

Wifi associated clients

The number of wifi clients can be checked once you're logged into your router (see page 2). Navigate to **WLAN > Associated Devices**. See Image 5.



hyperoptic

Status Path: Network-WLAN-Associated Devices Logout

Network

- WAN
- WLAN**
- Basic
- SSID Settings
- Security
- Access Control List
- Associated Devices**
- WDS
- WiFi Restrictions
- WPS PBC
- LAN

Security

Application

Administration

Help

Choose SSID **SSID1**

IP Address	MAC Address
192.168.1.100	18:21:95:d3:eb:ef

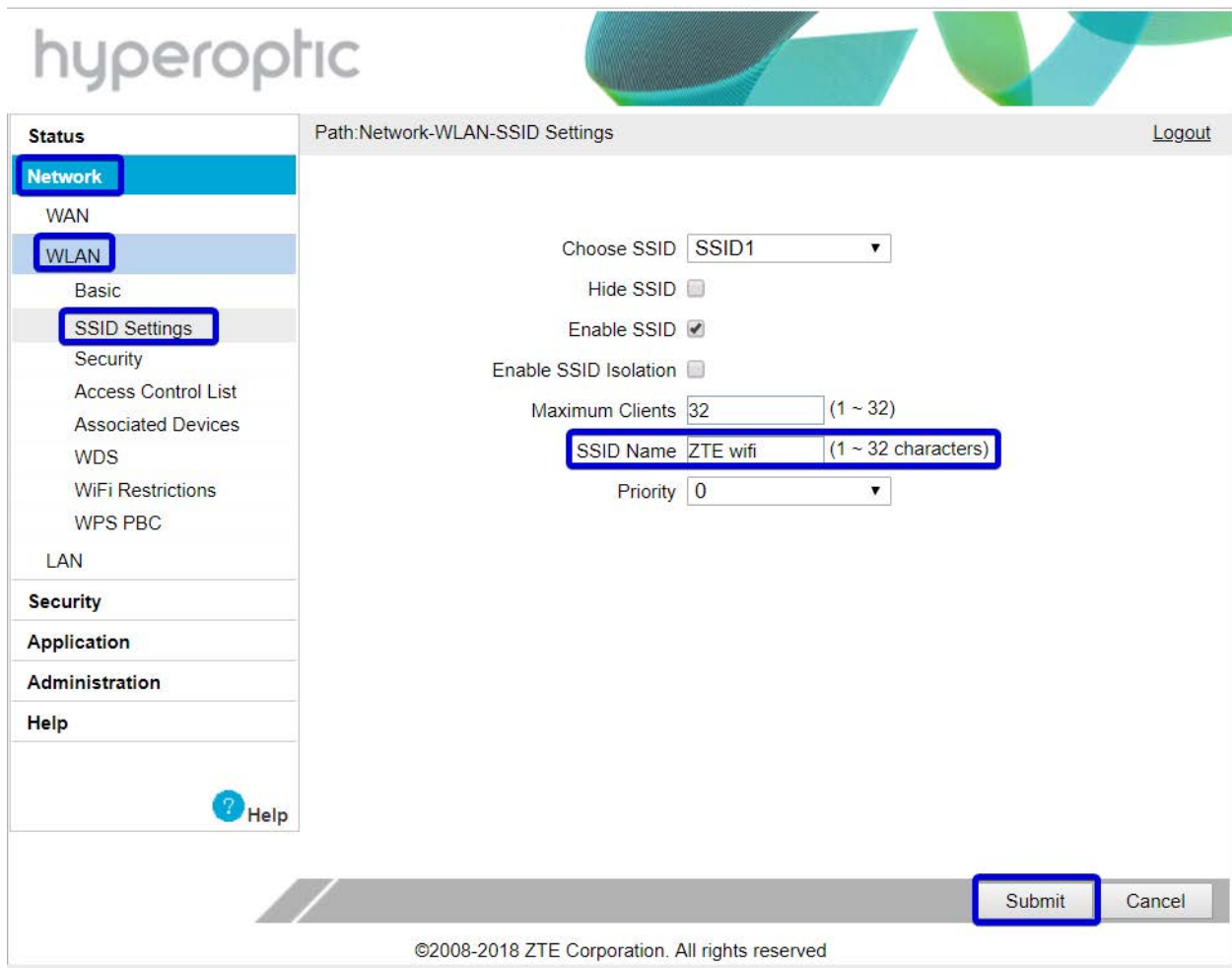
Refresh

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Image 5. List of wifi clients

Wifi password and SSID change

To change your wifi password or SSID name, log into your router (see page 2) and navigate to **Network > WLAN**. To change the name of your wifi connection, click on **SSID Settings** and change the **SSID Name** field. Once changed, click **Submit** button. See Image 6.



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Path: Network-WLAN-SSID Settings [Logout](#)

Status

- Network**
 - WAN
 - WLAN**
 - Basic
 - SSID Settings**
 - Security
 - Access Control List
 - Associated Devices
 - WDS
 - WiFi Restrictions
 - WPS PBC
 - LAN
- Security**
- Application**
- Administration**
- Help**

Choose SSID: SSID1 ▼

Hide SSID: ☐

Enable SSID: ☒

Enable SSID Isolation: ☐

Maximum Clients: 32 (1 ~ 32)

SSID Name: ZTE wifi (1 ~ 32 characters)

Priority: 0 ▼

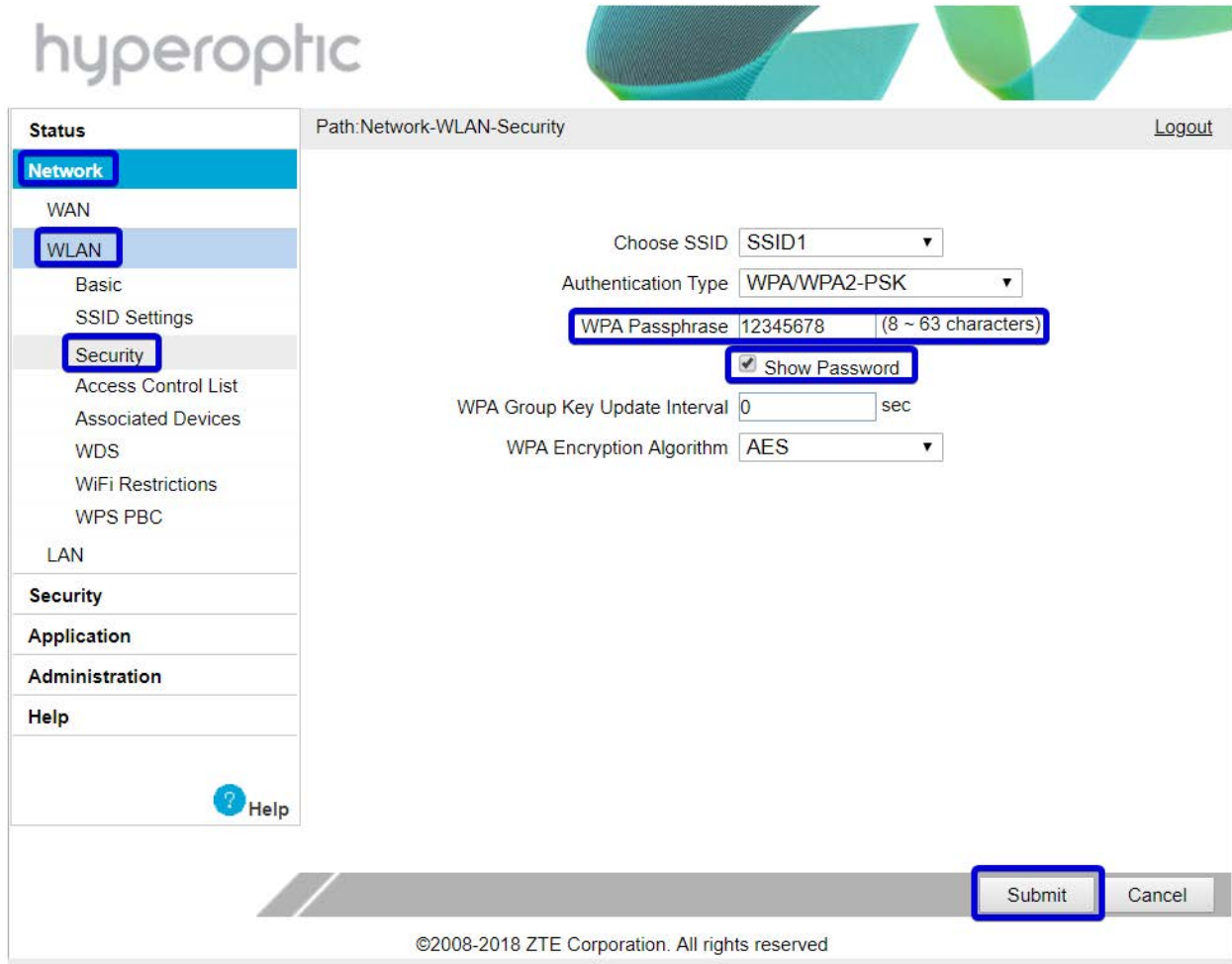
[? Help](#)

[Submit](#) [Cancel](#)

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Image 6. Changing network name (SSID)

To change your wifi password, navigate to **Network > WLAN > Security**. Change **WPA Passphrase** field and click **Submit**. See Image 7. Please use passwords containing upper and lower case letters and numbers, with a minimum of 12 characters in length.



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Status Path: Network-WLAN-Security Logout

Network

- WAN
- WLAN**
 - Basic
 - SSID Settings
 - Security**
 - Access Control List
 - Associated Devices
 - WDS
 - WiFi Restrictions
 - WPS PBC
- LAN

Security

Application

Administration

Help

Choose SSID SSID1

Authentication Type WPA/WPA2-PSK

WPA Passphrase 12345678 (8 ~ 63 characters)

☒ Show Password

WPA Group Key Update Interval 0 sec

WPA Encryption Algorithm AES

Submit Cancel

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Image 7. Changing your wifi password

WPS connection

To connect to wifi without a password, please log into your router (see page 2) and navigate to **Network > WLAN > WPS PBC**. Press the **WPS button** on your router and on the LAN host. A connection will then be made. See Image 8.

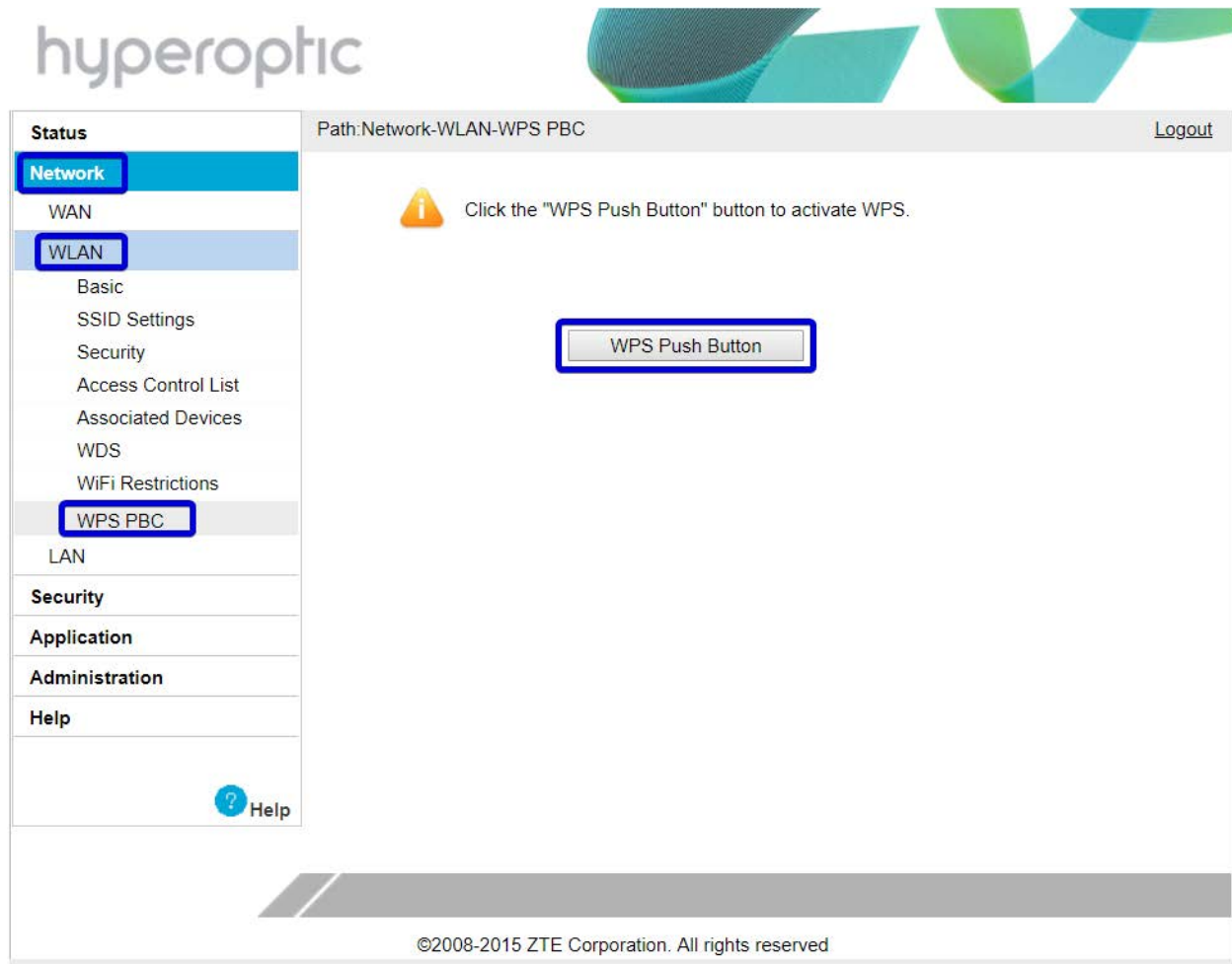
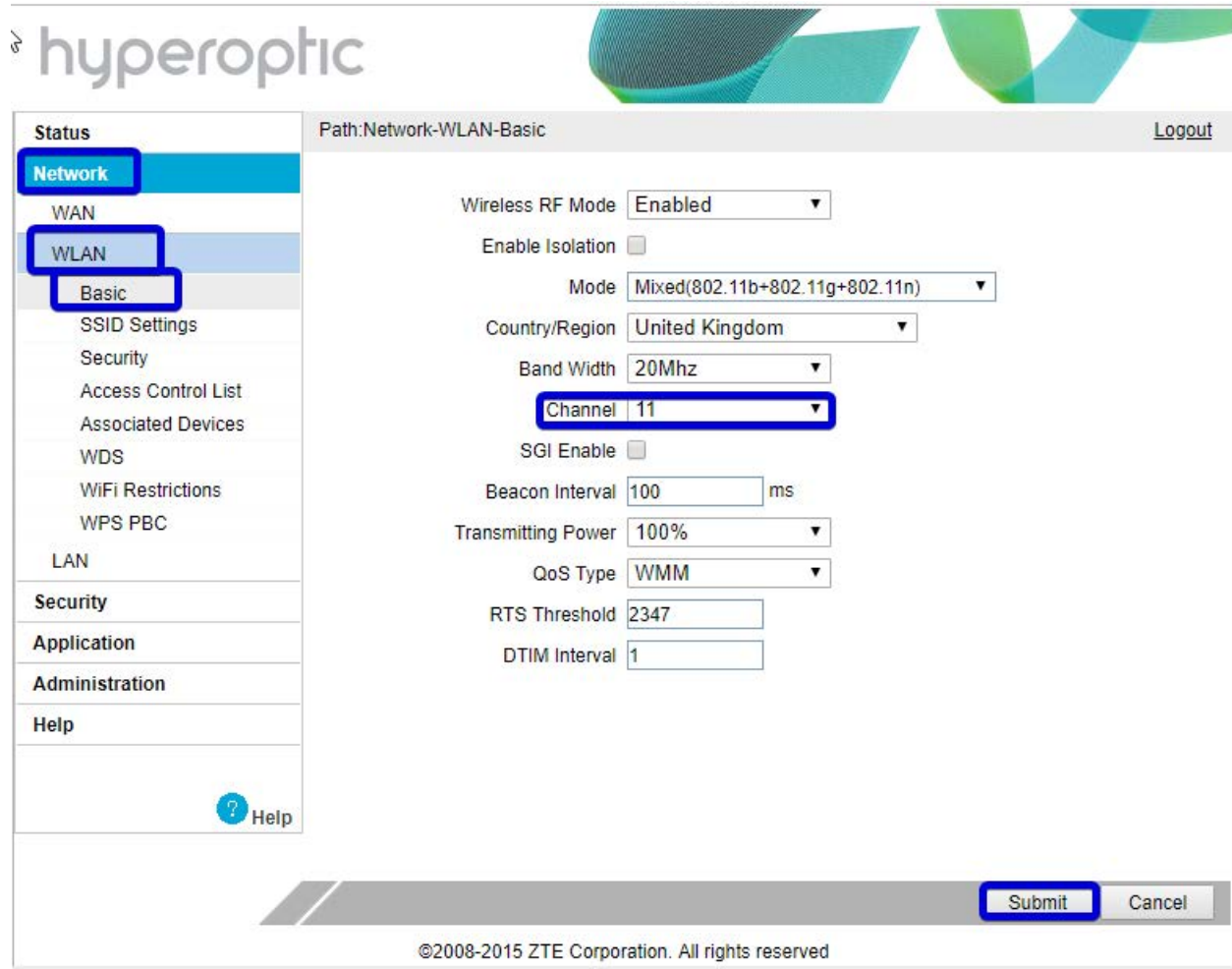


Image 8. WPS connection

Wifi channel change

To minimise interference, we highly recommend leaving your wifi channel selection on its default settings. If you would like to change your channel selection, however, you can do so by logging into your router (see page 2) and navigating to **Network > WLAN > Basic**.

Select your desired channel from the drop-down menu and click **Submit**. See Image 9.



The screenshot displays the hyperoptic router's web management interface. The left sidebar shows a navigation menu with 'Network' selected, and 'WLAN' and 'Basic' sub-items highlighted. The main content area is titled 'Path: Network-WLAN-Basic' and contains various configuration options for the wireless network. The 'Channel' dropdown menu is set to 11. The 'Submit' button at the bottom right is highlighted with a blue border.

Setting	Value
Wireless RF Mode	Enabled
Enable Isolation	<input type="checkbox"/>
Mode	Mixed(802.11b+802.11g+802.11n)
Country/Region	United Kingdom
Band Width	20Mhz
Channel	11
SIG Enable	<input type="checkbox"/>
Beacon Interval	100 ms
Transmitting Power	100%
QoS Type	WMM
RTS Threshold	2347
DTIM Interval	1

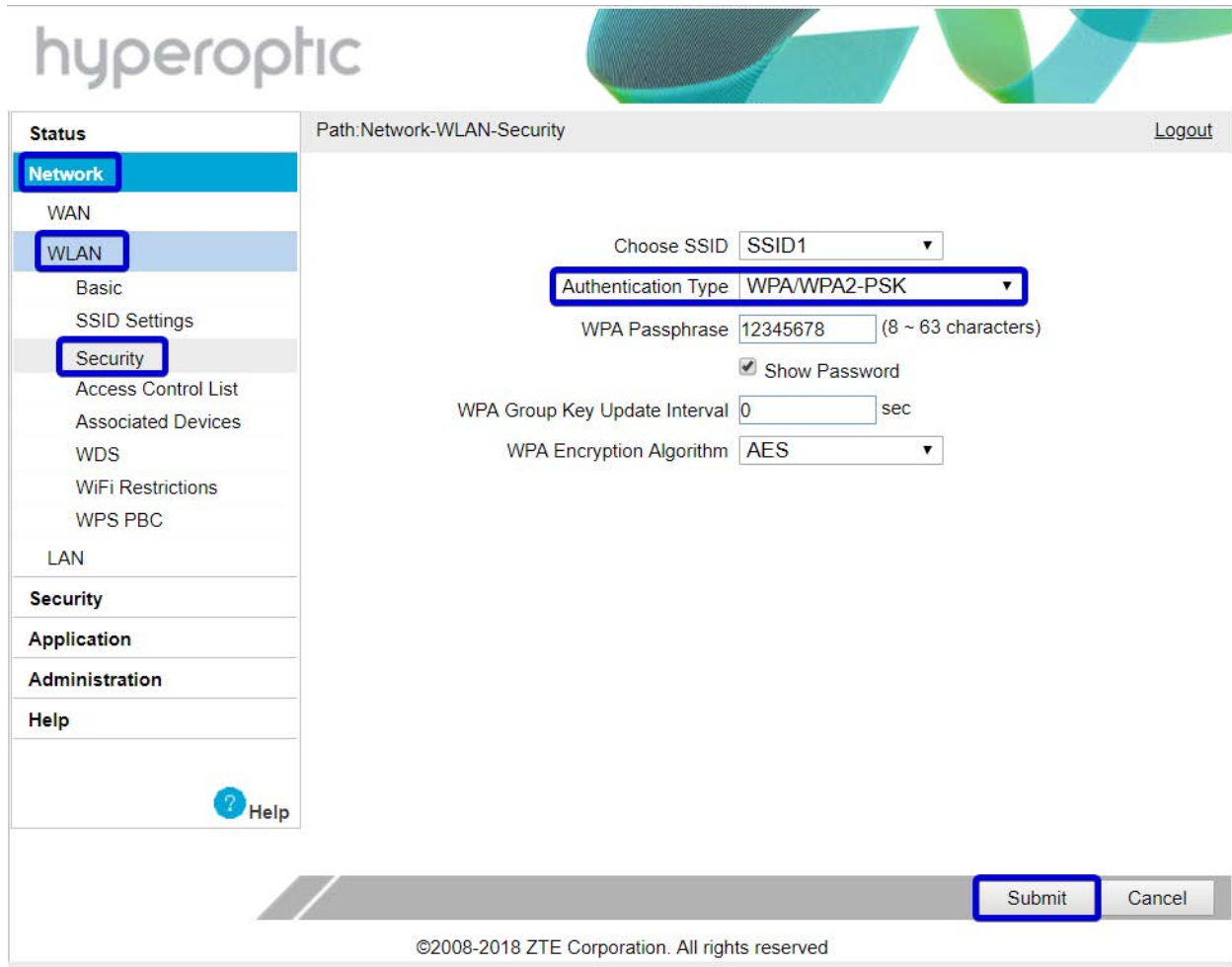
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Image 9. Wifi channel change

Wifi authentication

To change your wifi authentication settings, please log into your router (page 2) and navigate to **Network > WLAN > Security**. Select **Authentication Type** from the drop-down menu and click **Submit**. See Image 10. By default, advanced encryption algorithm is used.

Note: It is highly recommended to use only WPA2-PSK-AES.



hyperoptic

Path: Network-WLAN-Security [Logout](#)

Status

- Network**
- WAN
- WLAN**
- Basic
- SSID Settings
- Security**
- Access Control List
- Associated Devices
- WDS
- WiFi Restrictions
- WPS PBC
- LAN

Security

Application

Administration

Help

Choose SSID: SSID1

Authentication Type: WPA/WPA2-PSK

WPA Passphrase: 12345678 (8 ~ 63 characters)

☒ Show Password

WPA Group Key Update Interval: 0 sec

WPA Encryption Algorithm: AES

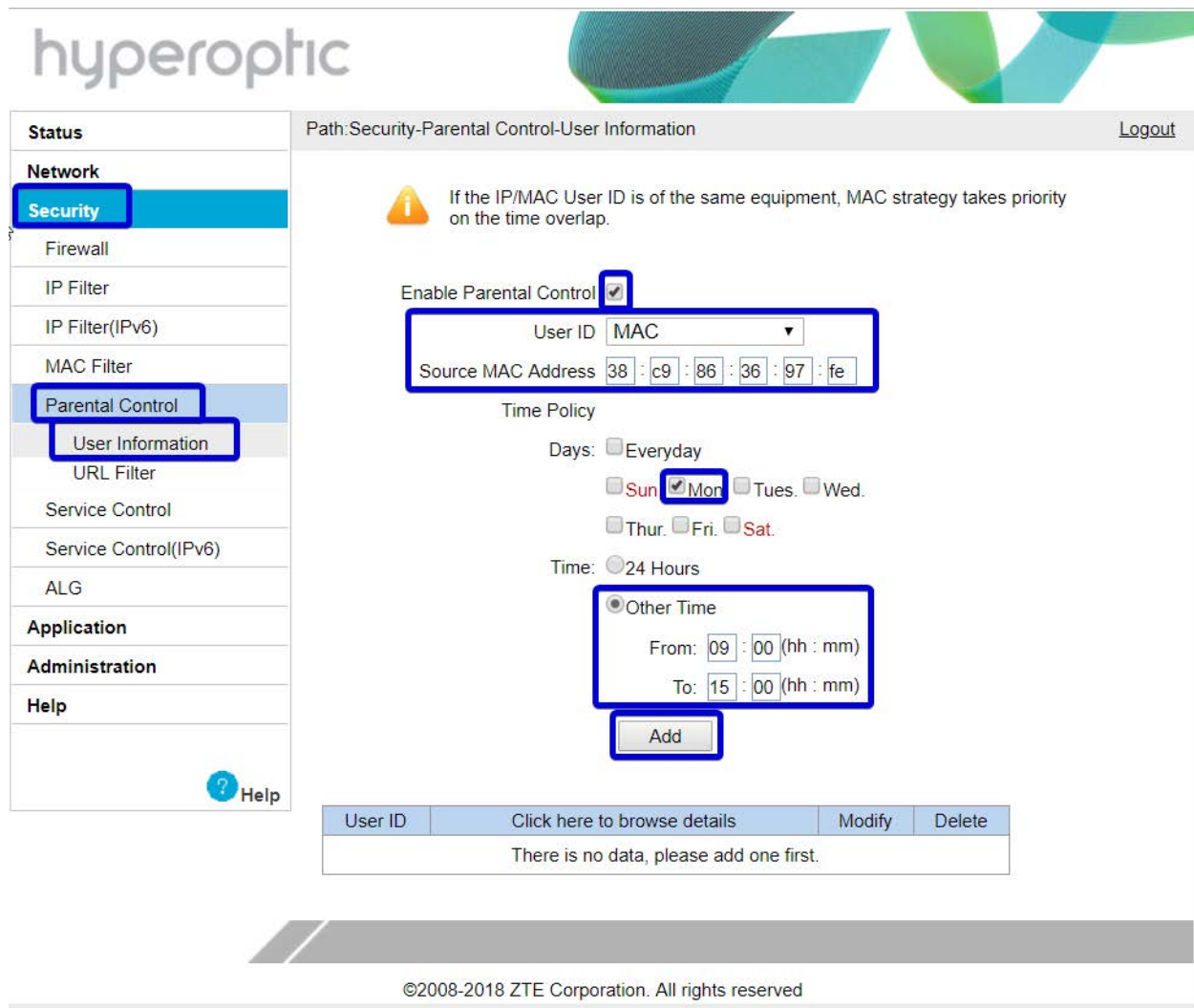
[Submit](#) [Cancel](#)

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Image 10. Changing wifi authentication

Parental control

Parental control can be used to restrict access to sites. To enable parental control, please log into your router (page 2) and navigate to **Security > Parental Control > User Information**. Provide the MAC address of the LAN client (device) for which internet service should be blocked. **Enable Parental Control**. Choose the day and time during which access should be restricted and click **Add**. See Image 11.



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Path: Security-Parental Control-User Information [Logout](#)

Enable Parental Control ☒

User ID: MAC

Source MAC Address: 38 : c9 : 86 : 36 : 97 : fe

Time Policy

Days: ☐ Everyday ☐ Sun ☒ Mon ☐ Tues. ☐ Wed. ☐ Thur. ☐ Fri. ☐ Sat.

Time: ☐ 24 Hours ☒ Other Time

From: 09 : 00 (hh : mm)

To: 15 : 00 (hh : mm)

Add

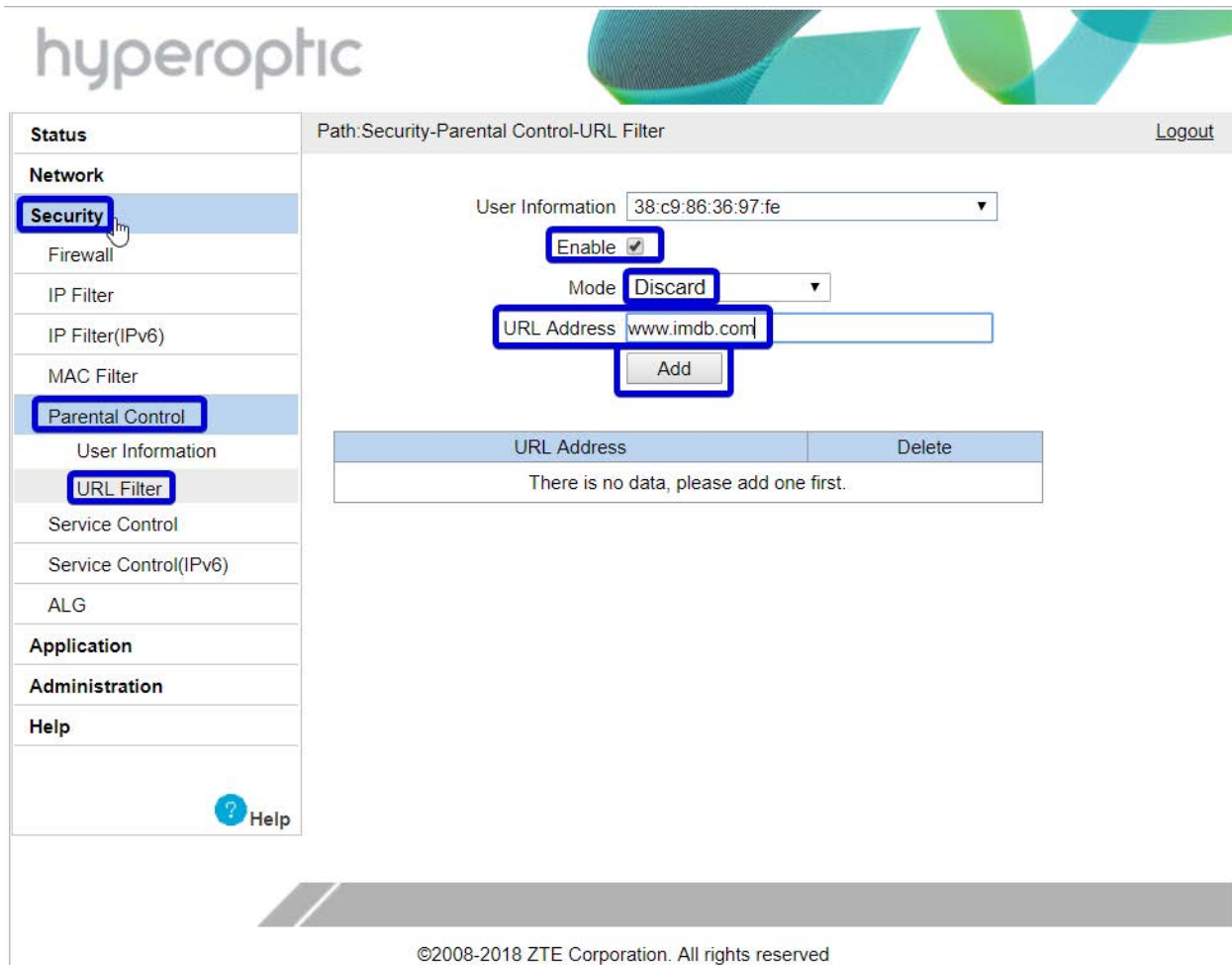
User ID	Click here to browse details	Modify	Delete
There is no data, please add one first.			

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Image 11. Blocking access from a device

After defining LAN client, navigate to **Security > Parental Control > URL Filter**. Tick **Enable**, list the URL you would like to block and choose mode **Discard**. Then click **Add**. See Image 12.

Please note that parental control will not filter IPv6 websites.



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Status Path: Security-Parental Control-URL Filter Logout

Network

Security

Firewall

IP Filter

IP Filter(IPv6)

MAC Filter

Parental Control

User Information

URL Filter

Service Control

Service Control(IPv6)

ALG

Application

Administration

Help

Help

User Information 38:c9:86:36:97:fe

Enable ☒

Mode Discard

URL Address www.imdb.com

Add

URL Address	Delete
There is no data, please add one first.	

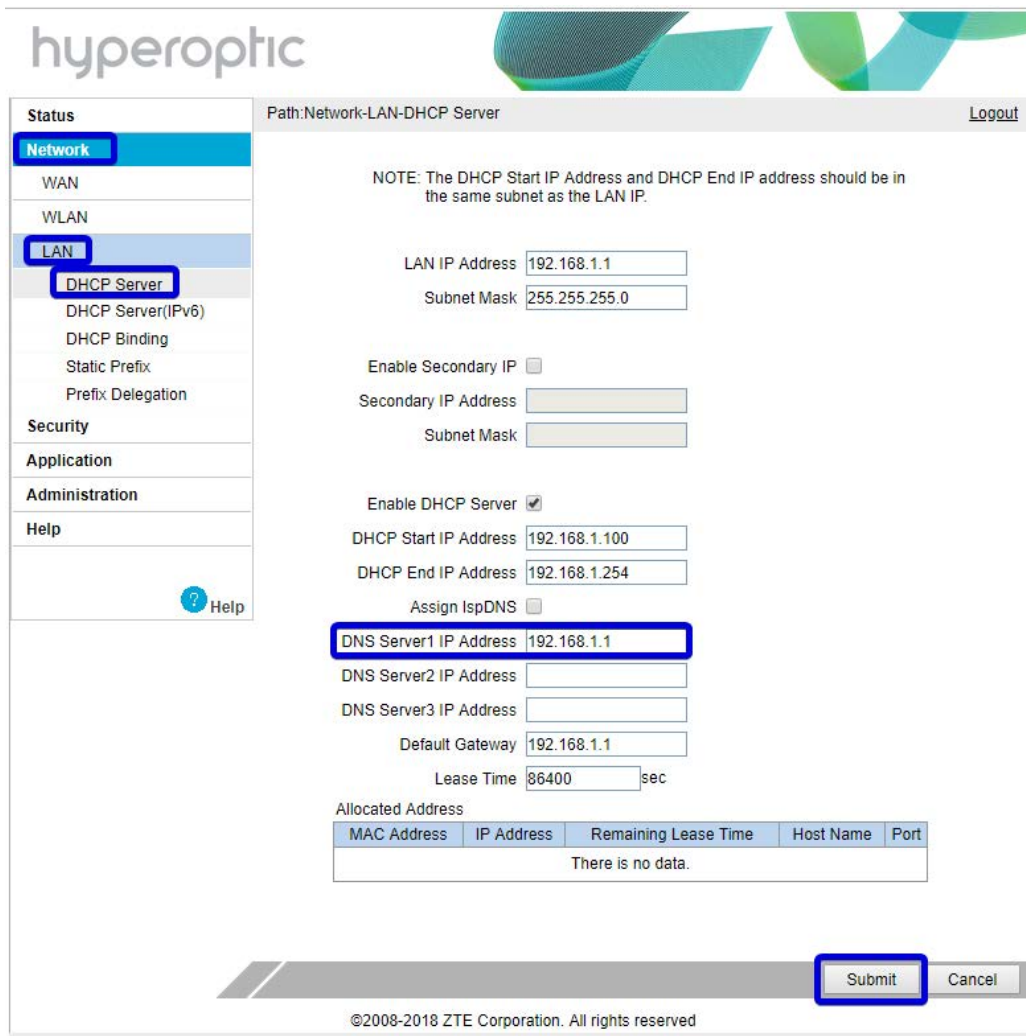
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Image 12. Blocking access to website

DNS change (admin account)

To change your DNS, please log into your router (page 2) and navigate to **Network > LAN > DHCP Server**. Change **DNS Server1/2/3 IP Address** fields with some of the public DNS servers and click **Submit**. See Image 13.

By default, the router uses two Hyperoptic DNS servers which provide redundancy and address resolution. These servers communicate directly with the WAN ethernet router port and provide means for swift browsing.



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Status

Network

WAN

WLAN

LAN

DHCP Server

DHCP Server(IPv6)

DHCP Binding

Static Prefix

Prefix Delegation

Security

Application

Administration

Help

Path: Network-LAN-DHCP Server

Logout

NOTE: The DHCP Start IP Address and DHCP End IP address should be in the same subnet as the LAN IP.

LAN IP Address: 192.168.1.1

Subnet Mask: 255.255.255.0

Enable Secondary IP: ☐

Secondary IP Address:

Subnet Mask:

Enable DHCP Server: ☒

DHCP Start IP Address: 192.168.1.100

DHCP End IP Address: 192.168.1.254

Assign IspDNS: ☐

DNS Server1 IP Address: 192.168.1.1

DNS Server2 IP Address:

DNS Server3 IP Address:

Default Gateway: 192.168.1.1

Lease Time: 86400 sec

Allocated Address



MAC Address	IP Address	Remaining Lease Time	Host Name	Port
There is no data.				

Submit Cancel

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Image 13. Change DNS server for LAN network

To enable the use of an arbitrary DNS, please **disable DHCPv6 server**. See Image 14.



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Status Path: Network-LAN-DHCP Server(IPv6) [Logout](#)

Network

- WAN
- WLAN
- LAN**
 - DHCP Server
 - DHCP Server(IPv6)**
 - DHCP Binding
 - Static Prefix
 - Prefix Delegation

Security

Application

Administration

Help

LAN IP Address fe80::1 / 64

Enable DHCP Server ☐

DNS Refresh Time 86400 sec

Allocated Address

DUID	IP Address	Remaining Lease Time
There is no data.		

Submit Cancel

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Image 14. Disable DHCPv6 server on LAN

UPnP router configuration

To configure your router using LAN UPnP applications, please log into your router (page 2) and navigate to **Application > UPnP**. Click **Enable** and chose **WAN-DHCP-Connection**. Then click **Submit**. See Image 15.

If you're not using UPnP applications, UPnP should be set to Off (the default UPnP setting is Off).

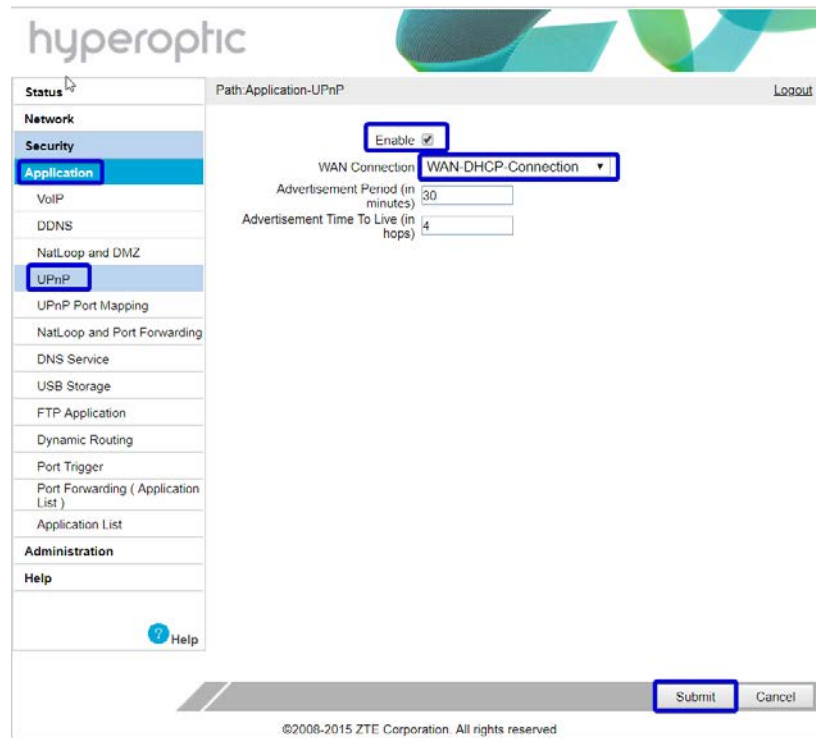


Image 15. Enabling UPnP service on a router

Please see Image 16 for the confirmation of UPnP router configuration. In this example, port mapping is configured.

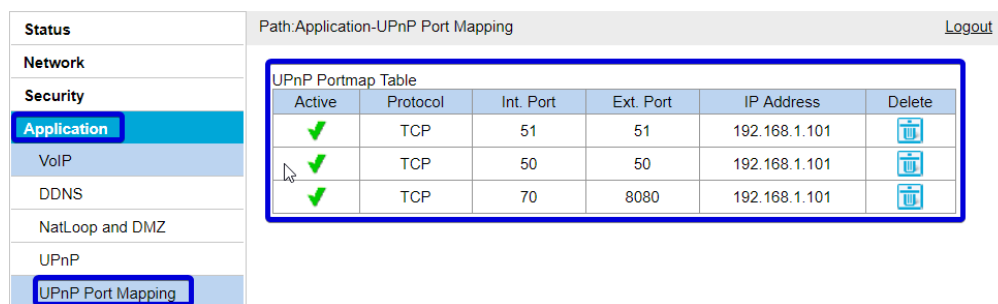


Photo 16. Confirmation of UPnP router configuration