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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**.

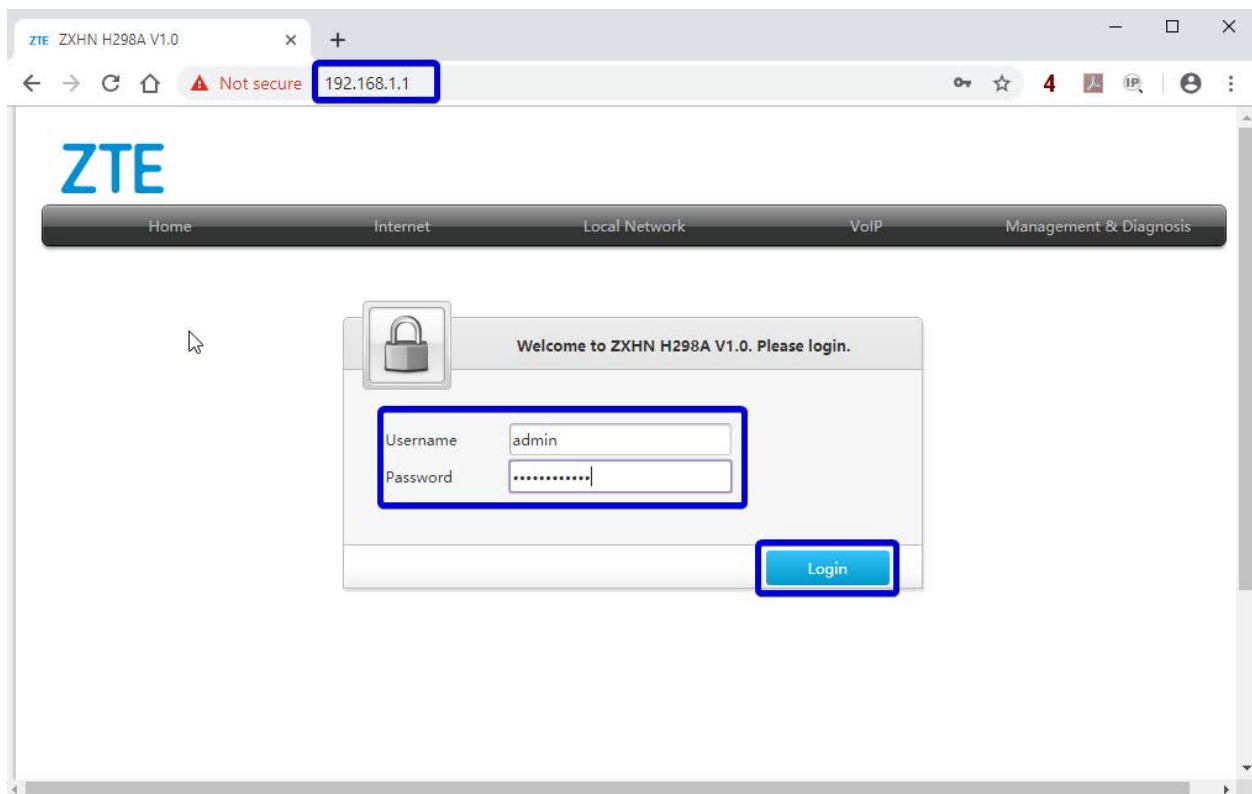
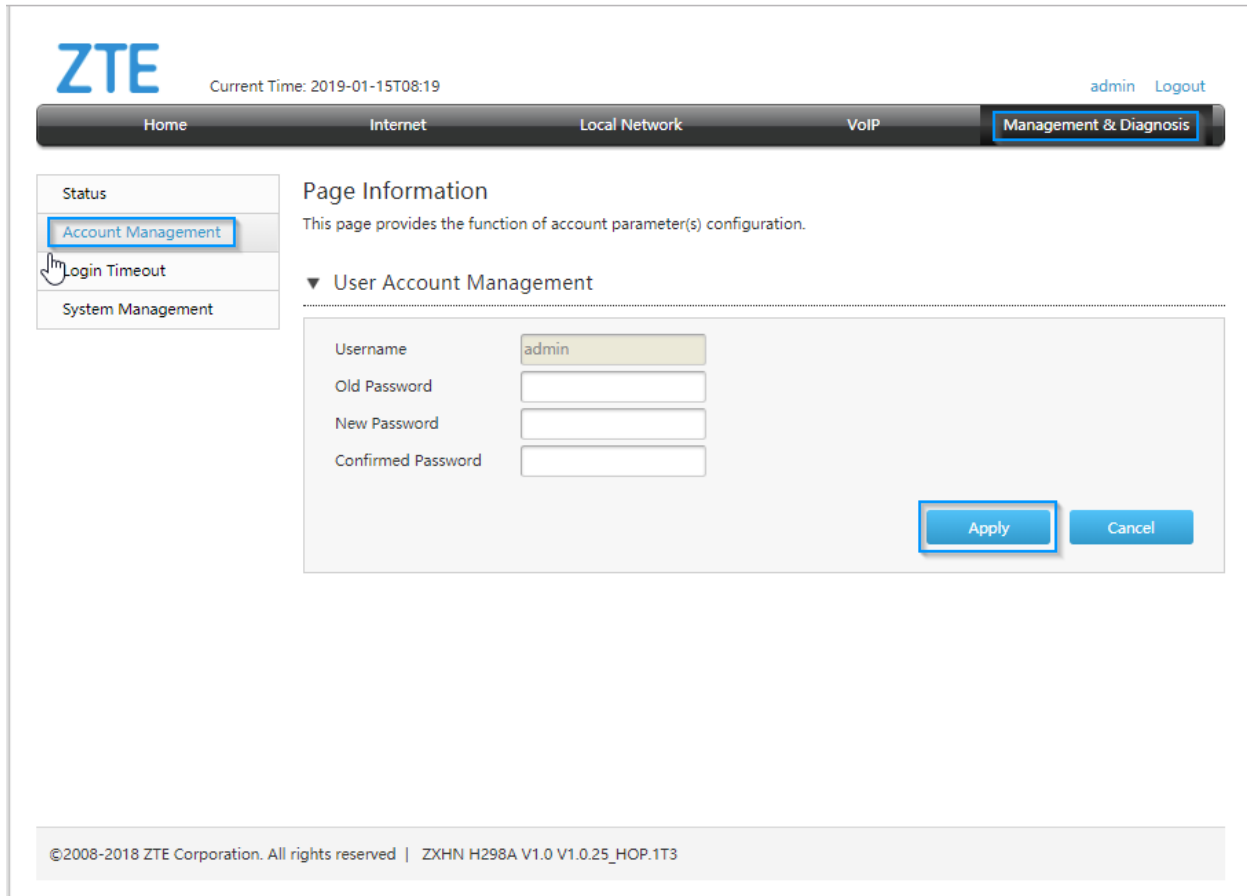


Image 1. Router H298A login screen

## Changing admin password

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



The screenshot displays the ZTE H298A admin interface. At the top, the ZTE logo is on the left, and the current time (2019-01-15T08:19) and user status (admin Logout) are on the right. A navigation bar below the header contains links for Home, Internet, Local Network, VoIP, and Management & Diagnosis (which is highlighted). On the left sidebar, under the 'Status' section, 'Account Management' is selected and highlighted. The main content area is titled 'Page Information' and states: 'This page provides the function of account parameter(s) configuration.' Below this, a section titled 'User Account Management' contains a form with the following fields: Username (pre-filled with 'admin'), Old Password, New Password, and Confirmed Password. At the bottom right of the form are 'Apply' and 'Cancel' buttons. The footer of the page reads: '©2008-2018 ZTE Corporation. All rights reserved | ZXHN H298A V1.0 V1.0.25\_HOP.1T3'.

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 **Management & Diagnostic > System Management > Device Management**. 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.

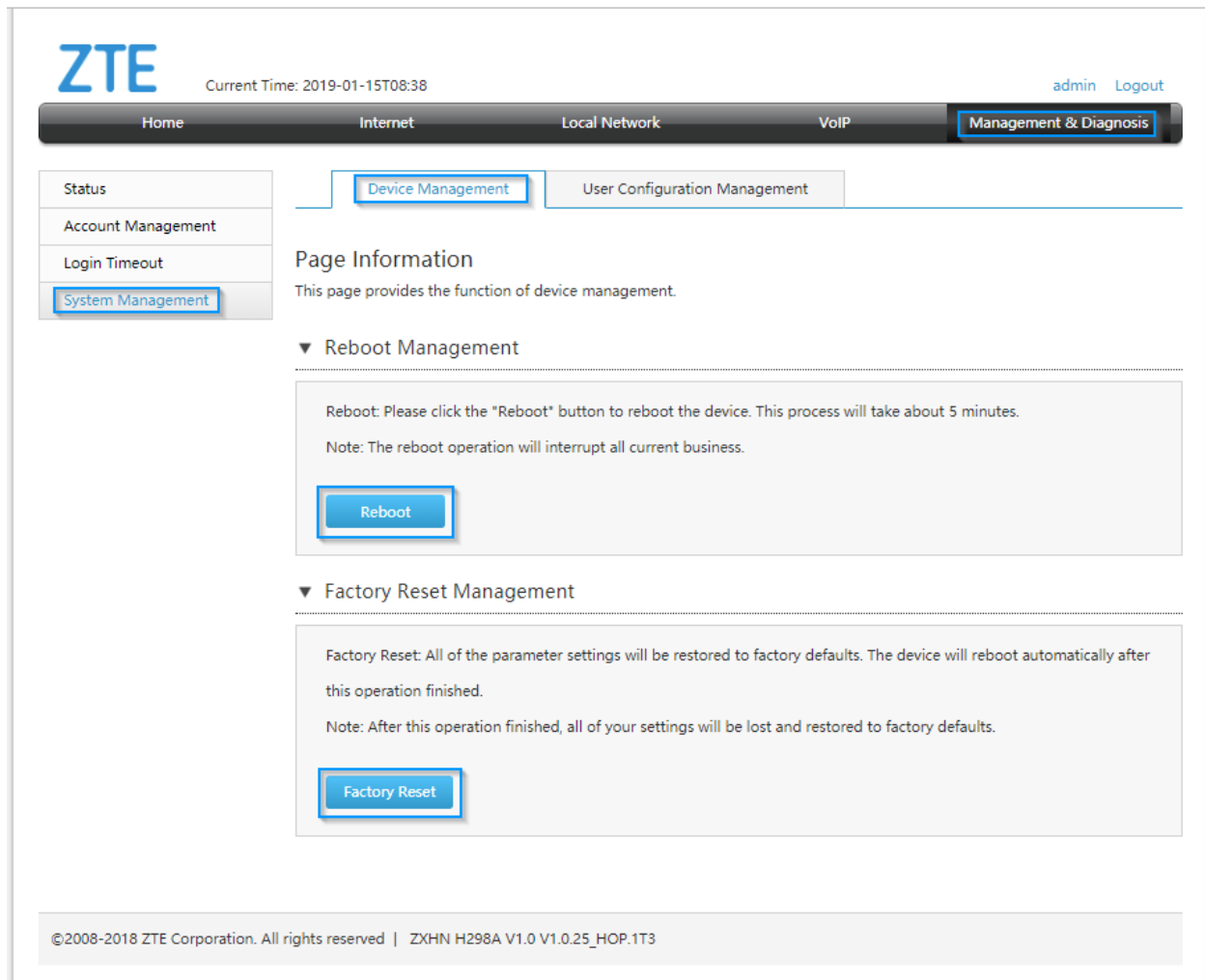
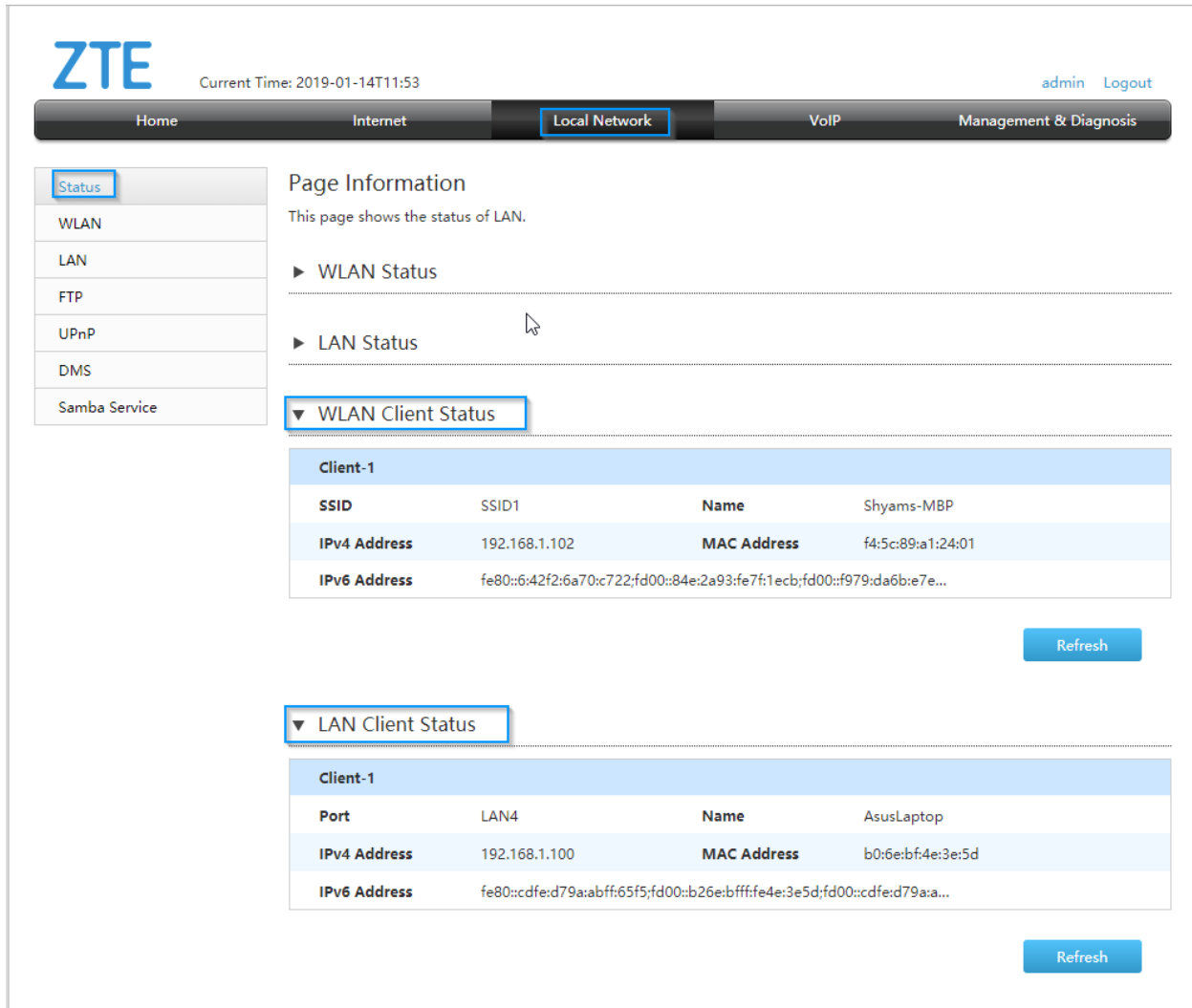


Image 3. Reboot and factory reset

## 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 **Local Network > Status > WLAN Client Status** and **LAN Client Status**. See Image 4.



The screenshot shows the ZTE H298A admin interface. The top navigation bar includes 'Home', 'Internet', 'Local Network' (highlighted), 'VoIP', and 'Management & Diagnosis'. The left sidebar has 'Status' (highlighted), 'WLAN', 'LAN', 'FTP', 'UPnP', 'DMS', and 'Samba Service'. The main content area is titled 'Page Information' and states 'This page shows the status of LAN.' It contains three expandable sections: 'WLAN Status', 'LAN Status', and 'WLAN Client Status' (highlighted). The 'WLAN Client Status' section displays a table for 'Client-1' with the following data:

Client-1			
SSID	SSID1	Name	Shyams-MBP
IPv4 Address	192.168.1.102	MAC Address	f4:5c:89:a1:24:01
IPv6 Address	fe80::6:42f2:6a70:c722;fd00::84e:2a93:fe7f:1ecb;fd00::f979:da6b:e7e...		

Below the table is a 'Refresh' button. The 'LAN Client Status' section is also expandable and displays a table for 'Client-1' with the following data:

Client-1			
Port	LAN4	Name	AsusLaptop
IPv4 Address	192.168.1.100	MAC Address	b0:6e:bf:4e:3e:5d
IPv6 Address	fe80::cdfc:d79a:abff:65f5;fd00::b26e:bfff:fe4e:3e5d;fd00::cdfc:d79a:a...		

Below this table is another 'Refresh' button.

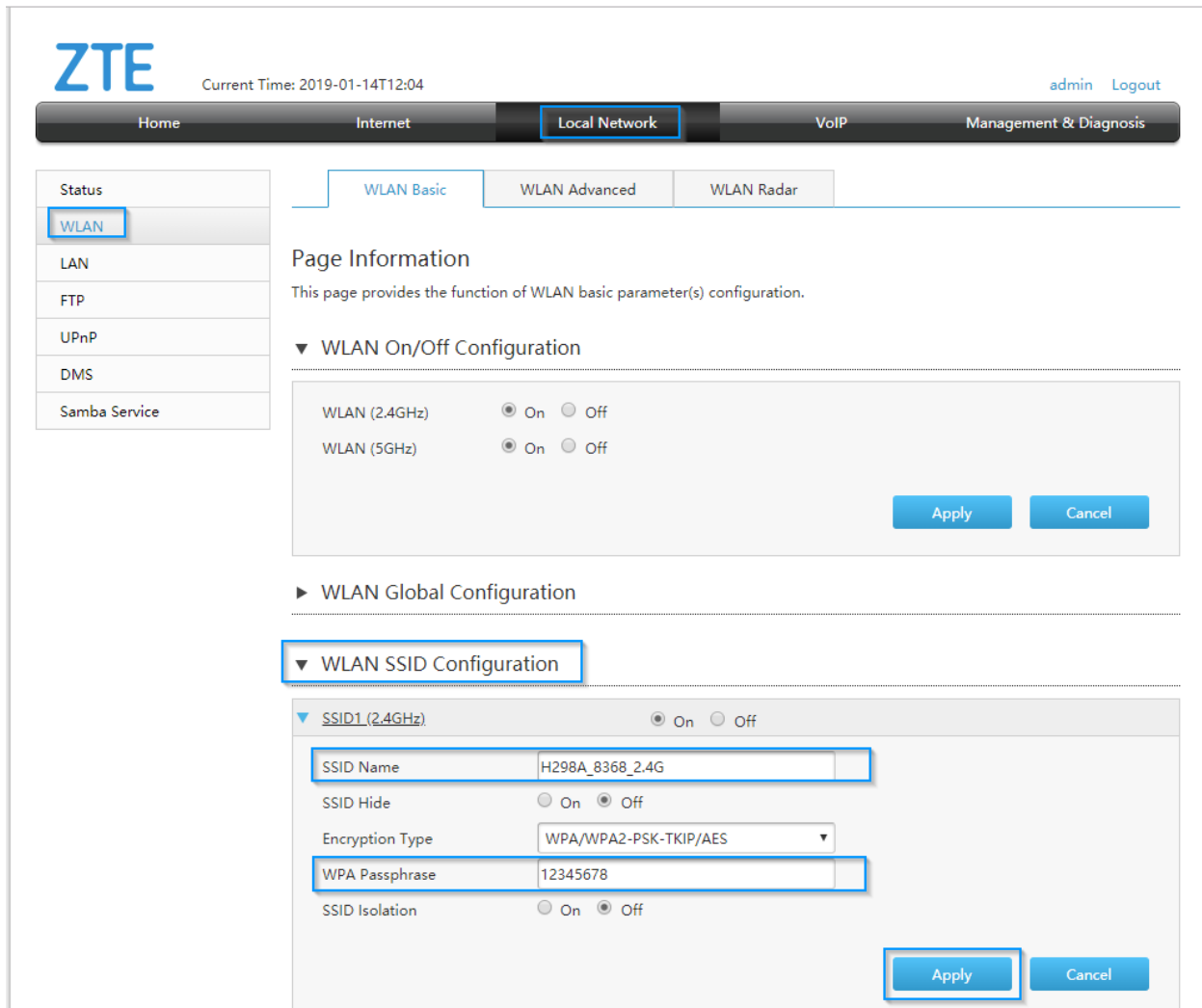
Image 4. List of WLAN and Ethernet LAN clients

When moving your mouse over IPv6 addresses, all IPv6 addresses will be shown inside a yellow/white comment box.

## Wifi password and SSID change

To change your wifi password or SSID name, log into your router (see page 2) and navigate to **Local Network > WLAN > WLAN Basic > WLAN SSID Configuration**. See Image 5.

You can then choose the **SSID name** and **WPA Passphrase**. Please use passwords containing upper and lower case letters and numbers, with a minimum of 12 characters in length. Once changed, click **Apply**.



The screenshot displays the ZTE H298A router's web interface. The top navigation bar includes 'Home', 'Internet', 'Local Network' (selected), 'VoIP', and 'Management & Diagnosis'. The left sidebar shows 'Status' and 'WLAN' (selected). The main content area is titled 'WLAN Basic' and contains 'WLAN On/Off Configuration' and 'WLAN Global Configuration'. The 'WLAN SSID Configuration' section is expanded, showing settings for 'SSID1 (2.4GHz)'. The 'SSID Name' is 'H298A\_8368\_2.4G', 'SSID Hide' is 'Off', 'Encryption Type' is 'WPA/WPA2-PSK-TKIP/AES', 'WPA Passphrase' is '12345678', and 'SSID Isolation' is 'Off'. 'Apply' and 'Cancel' buttons are at the bottom right.

Image 5. Configuration of 2.4GHz wifi parameters

*Note: It is highly recommended to use only WPA2-PSK-AES for 2.4GHz and 5GHz.*

Configuration of 5GHz wifi parameters is described in Image 6. Again, **SSID Name** and **WPA Passphrase** can be chosen by you. Once changed, click **Apply**.



**▼ WLAN SSID Configuration**

<b>▼ SSID1 (2.4GHz)</b>	<input checked="" type="radio"/> On <input type="radio"/> Off
SSID Name	H298A_8368_2.4G
SSID Hide	<input type="radio"/> On <input checked="" type="radio"/> Off
Encryption Type	WPA/WPA2-PSK-TKIP/AES ▼
WPA Passphrase	12345678
SSID Isolation	<input type="radio"/> On <input checked="" type="radio"/> Off
<div>Apply Cancel</div>	
▶ SSID2 (2.4GHz)	<input type="radio"/> On <input checked="" type="radio"/> Off
▶ SSID3 (2.4GHz)	<input type="radio"/> On <input checked="" type="radio"/> Off
▶ SSID4 (2.4GHz)	<input type="radio"/> On <input checked="" type="radio"/> Off
<b>▼ SSID5 (5GHz)</b>	<input checked="" type="radio"/> On <input type="radio"/> Off
SSID Name	ZTE_H298A_8368_5G
SSID Hide	<input type="radio"/> On <input checked="" type="radio"/> Off
Encryption Type	WPA2-PSK-AES ▼
WPA Passphrase	12345678
SSID Isolation	<input type="radio"/> On <input checked="" type="radio"/> Off
<div>Apply Cancel</div>	
▶ SSID6 (5GHz)	<input type="radio"/> On <input checked="" type="radio"/> Off
▶ SSID7 (5GHz)	<input type="radio"/> On <input checked="" type="radio"/> Off
▶ SSID8 (5GHz)	<input type="radio"/> On <input checked="" type="radio"/> Off

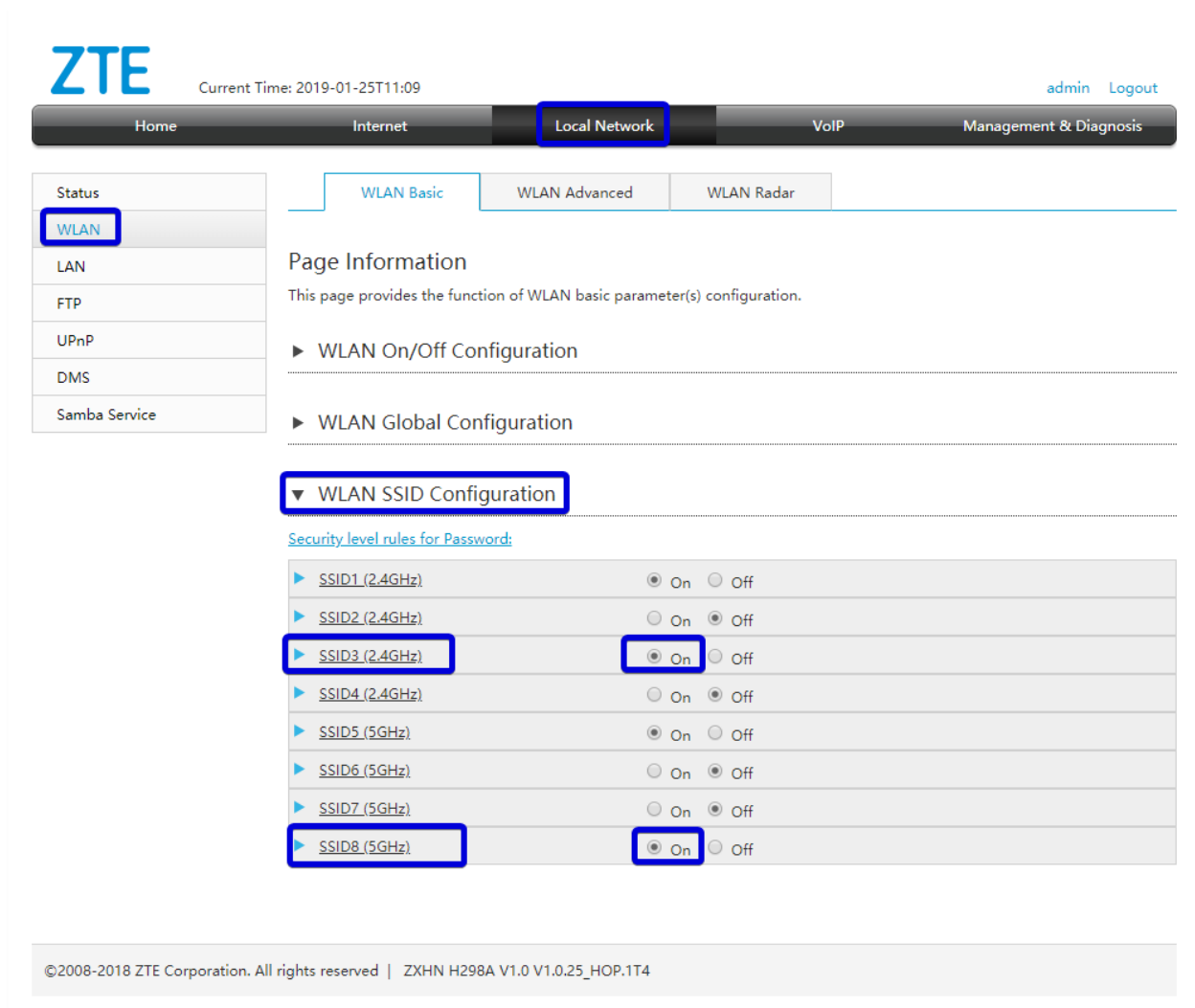
Image 6. Configuration of 5GHz wifi parameters

## WPS connection

To connect to wifi without a password, press the WPS button on the router until the LED light indicates that WPS is active. Once the LED lights green, press the WPS button on your LAN device. After a few seconds, the connection will be made.

## Creating, disabling and changing settings for SSIDs

To create a new SSID, log into your router (see page 2) and navigate to **Local Network > WLAN > WLAN SSID Configuration**. Enable an SSID by clicking **On**. See Image 7.



**ZTE** Current Time: 2019-01-25T11:09 admin Logout

Home Internet **Local Network** VoIP Management & Diagnosis

Status  
**WLAN**  
LAN  
FTP  
UPnP  
DMS  
Samba Service

WLAN Basic WLAN Advanced WLAN Radar

**Page Information**  
This page provides the function of WLAN basic parameter(s) configuration.

▶ WLAN On/Off Configuration

▶ WLAN Global Configuration

▼ **WLAN SSID Configuration**

[Security level rules for Password:](#)

▶ SSID1 (2.4GHz)	<input checked="" type="radio"/> On <input type="radio"/> Off
▶ SSID2 (2.4GHz)	<input type="radio"/> On <input checked="" type="radio"/> Off
▶ <b>SSID3 (2.4GHz)</b>	<input checked="" type="radio"/> On <input type="radio"/> Off
▶ SSID4 (2.4GHz)	<input type="radio"/> On <input checked="" type="radio"/> Off
▶ SSID5 (5GHz)	<input checked="" type="radio"/> On <input type="radio"/> Off
▶ SSID6 (5GHz)	<input type="radio"/> On <input checked="" type="radio"/> Off
▶ SSID7 (5GHz)	<input type="radio"/> On <input checked="" type="radio"/> Off
▶ <b>SSID8 (5GHz)</b>	<input checked="" type="radio"/> On <input type="radio"/> Off

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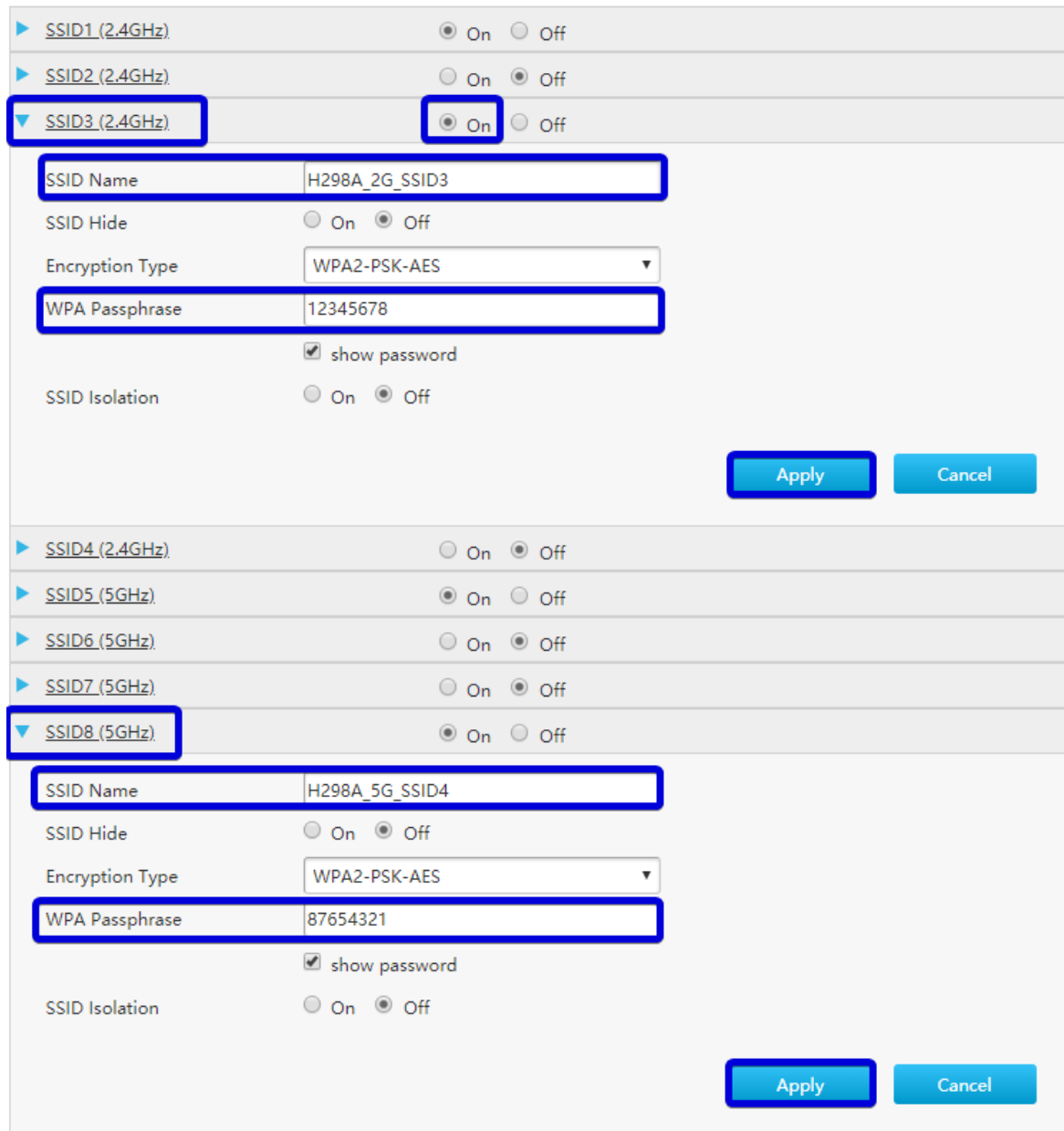
Image 7. Creating new SSID for 2.4GHz and 5GHz



Once new or existing SSIDs are enabled, you can expand their properties by clicking on the blue triangle. See Image 8. Type your chosen **SSID Name** and supply the **WPA Passphrase** that would be needed for access. Click **Apply**.

#### ▼ WLAN SSID Configuration

[Security level rules for Password:](#)



The screenshot displays the WLAN SSID Configuration interface. It features a list of SSIDs with expandable configuration panels. SSID3 (2.4GHz) and SSID8 (5GHz) are expanded, showing their respective settings. Red boxes highlight the 'On' radio buttons for both SSIDs, the 'SSID Name' and 'WPA Passphrase' input fields, and the 'Apply' buttons for each configuration panel.

SSID	Frequency	Status	SSID Name	SSID Hide	Encryption Type	WPA Passphrase	show password	SSID Isolation
SSID1	2.4GHz	On						
SSID2	2.4GHz	Off						
SSID3	2.4GHz	On	H298A_2G_SSID3	Off	WPA2-PSK-AES	12345678	checked	Off
SSID4	2.4GHz	Off						
SSID5	5GHz	On						
SSID6	5GHz	Off						
SSID7	5GHz	Off						
SSID8	5GHz	On	H298A_5G_SSID4	Off	WPA2-PSK-AES	87654321	checked	Off

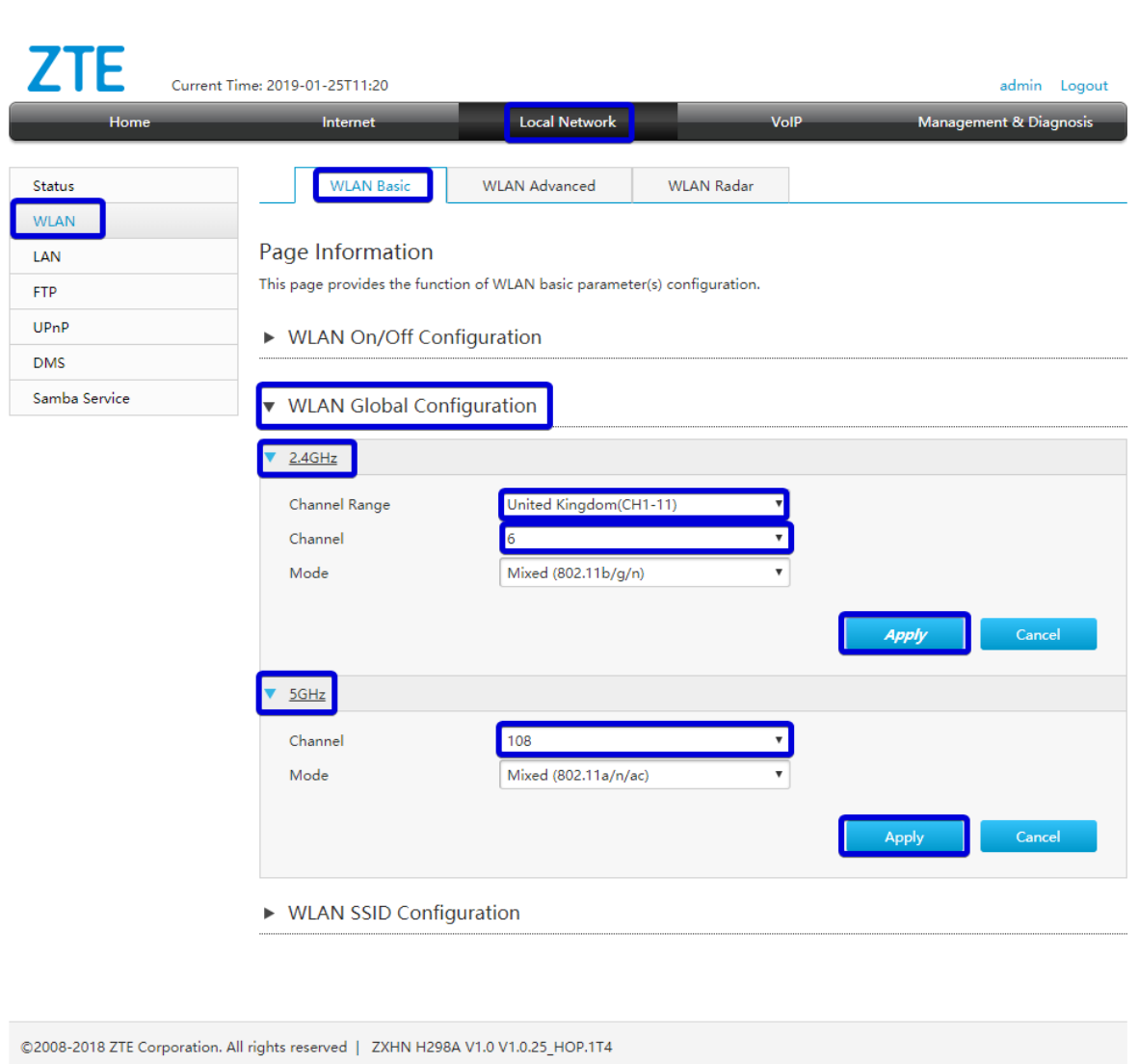
Image 8. Changing SSID Name and WPA Passphrase for new SSIDs

To disable an existing SSID, click the **Off** button associated with that SSID.

## 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 **Local Network > WLAN > WLAN Basic > WLAN Global Configuration**.

Expand properties by clicking on the blue rectangle near the 2.4GHz and 5GHz frequency bands. For 2.4GHz, select **Channel Range of United Kingdom(CH1-11)**, select your desired channel and click **Apply**. See Image 9.



**ZTE** Current Time: 2019-01-25T11:20 admin Logout

Home Internet **Local Network** VoIP Management & Diagnosis

Status  
**WLAN**  
LAN  
FTP  
UPnP  
DMS  
Samba Service

**WLAN Basic** WLAN Advanced WLAN Radar

**Page Information**  
This page provides the function of WLAN basic parameter(s) configuration.

► WLAN On/Off Configuration

▼ **WLAN Global Configuration**

▼ **2.4GHz**

Channel Range: United Kingdom(CH1-11)  
Channel: 6  
Mode: Mixed (802.11b/g/n)  
Apply Cancel

▼ **5GHz**

Channel: 108  
Mode: Mixed (802.11a/n/ac)  
Apply Cancel

► WLAN SSID Configuration

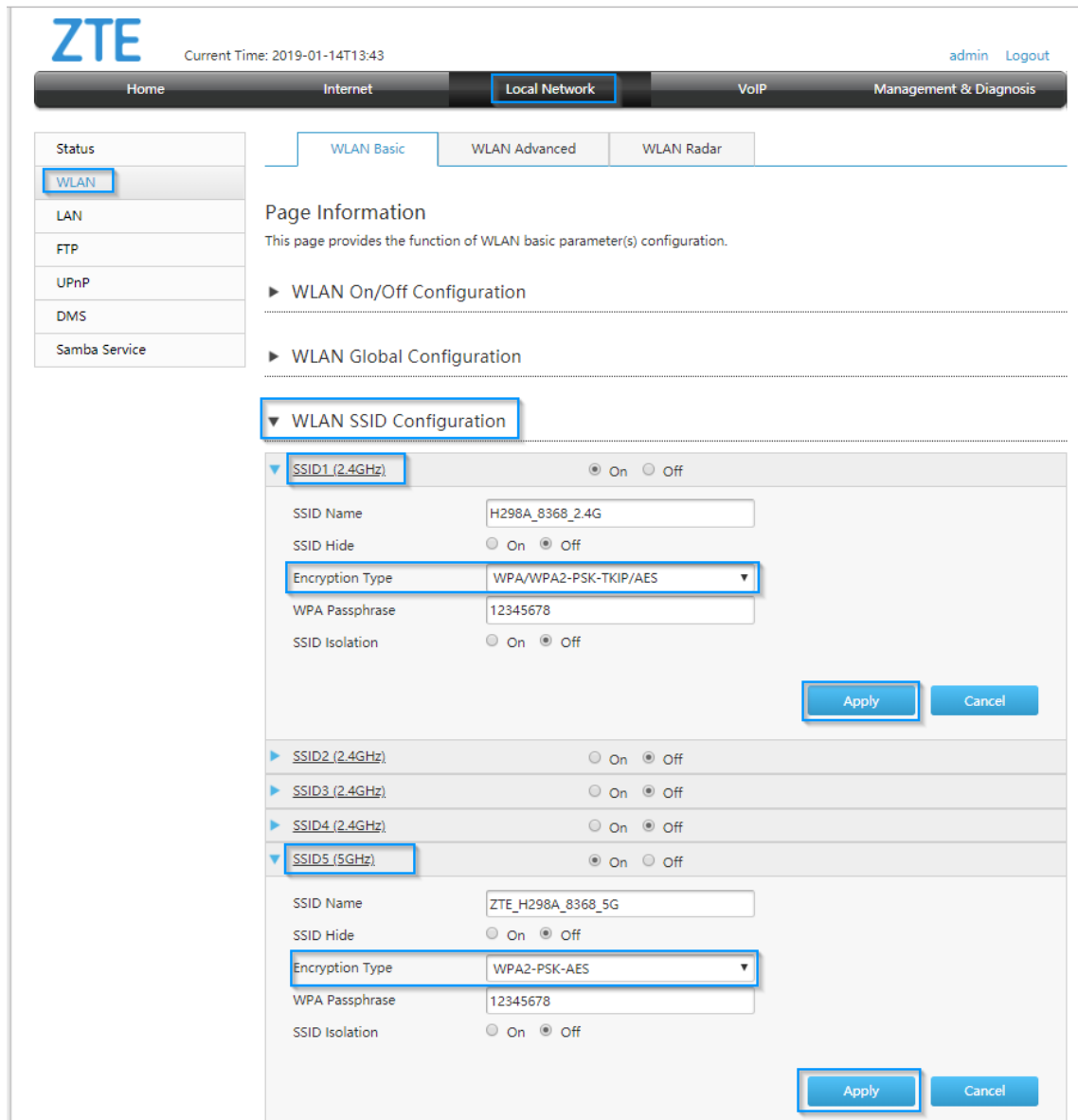
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Image 9. Selecting channel for wifi

## Wifi authentication

To change your wifi authentication settings, please log into your router (page 2) and navigate to **Local Network > WLAN > WLAN Basic > WLAN SSID Configuration**. 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 for 2.4GHz and 5GHz.*



**ZTE** Current Time: 2019-01-14T13:43 admin Logout

Home Internet **Local Network** VoIP Management & Diagnosis

Status  
**WLAN**  
LAN  
FTP  
UPnP  
DMS  
Samba Service

WLAN Basic WLAN Advanced WLAN Radar

Page Information  
This page provides the function of WLAN basic parameter(s) configuration.

► WLAN On/Off Configuration

► WLAN Global Configuration

▼ **WLAN SSID Configuration**

▼ **SSID1 (2.4GHz)** ☐ On ☒ Off

SSID Name: H298A\_8368\_2.4G

SSID Hide: ☐ On ☒ Off

Encryption Type: WPA/WPA2-PSK-TKIP/AES

WPA Passphrase: 12345678

SSID Isolation: ☐ On ☒ Off

Apply Cancel

► SSID2 (2.4GHz) ☐ On ☒ Off

► SSID3 (2.4GHz) ☐ On ☒ Off

► SSID4 (2.4GHz) ☐ On ☒ Off

▼ **SSID5 (5GHz)** ☒ On ☐ Off

SSID Name: ZTE\_H298A\_8368\_5G

SSID Hide: ☐ On ☒ Off

Encryption Type: WPA2-PSK-AES

WPA Passphrase: 12345678

SSID Isolation: ☐ On ☒ Off

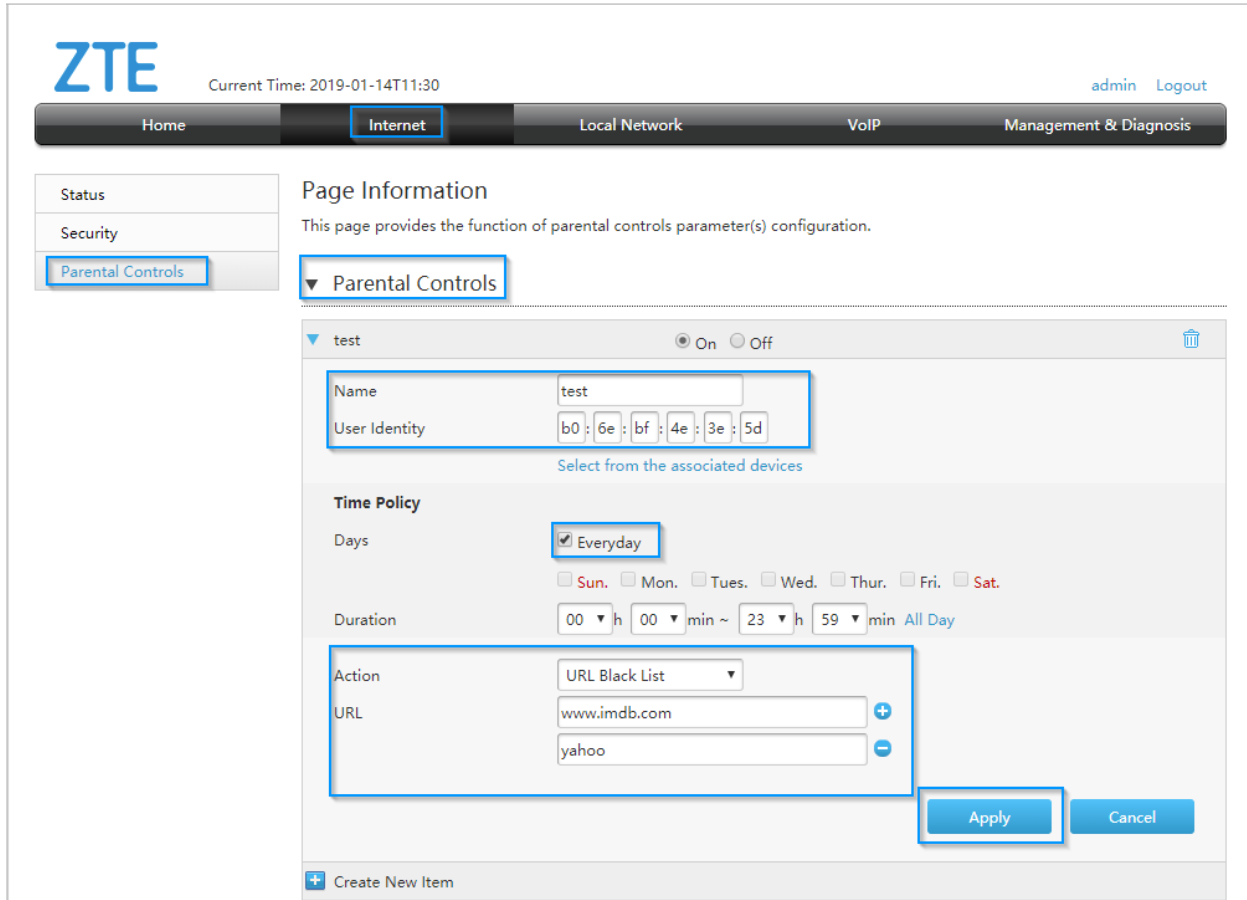
Apply Cancel

Image 10. Encryption types per SSID

## Parental control

Parental control can be used to restrict access to sites. To enable parental control, please login to your router (page 2) and navigate to **Internet > Parental Controls**. Name your parental control rule and, under User Identity, provide the MAC address of the LAN client for which internet service should be blocked.

Choose the day and time during which access should be restricted and provide any keyword or URLs you would like to block and click **Apply**. See Image 11.




**ZTE** Current Time: 2019-01-14T11:30 admin Logout

Home **Internet** Local Network VoIP Management & Diagnosis

Status  
Security  
**Parental Controls**

**Page Information**  
This page provides the function of parental controls parameter(s) configuration.

**Parental Controls**

**test** ☒ On ☐ Off 

Name test

User Identity b0 : 6e : bf : 4e : 3e : 5d  
Select from the associated devices

**Time Policy**

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

Duration 00 h 00 min ~ 23 h 59 min All Day

Action URL Black List

URL www.imdb.com +  
yahoo -

**Apply** **Cancel**

+ Create New Item

Image 11. Example of traffic blocking to Yahoo and imdb

Please note that parental control won't filter any website which contains **https** in the address bar (e.g. <https://www.youtube.com>). This means it will only filter websites with **http** (e.g. <http://www.yahoo.com>)

## Change of DNS (admin account)

Your DNS properties can be changed for local LAN clients. To change, you'll need to follow these steps, and then call Hyperoptic Customer Support to complete the final step.

To change your DNS, please log into your router (page 2) and navigate to **Home > LAN Devices**. Click on **LAN Settings**. See Image 12.

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.

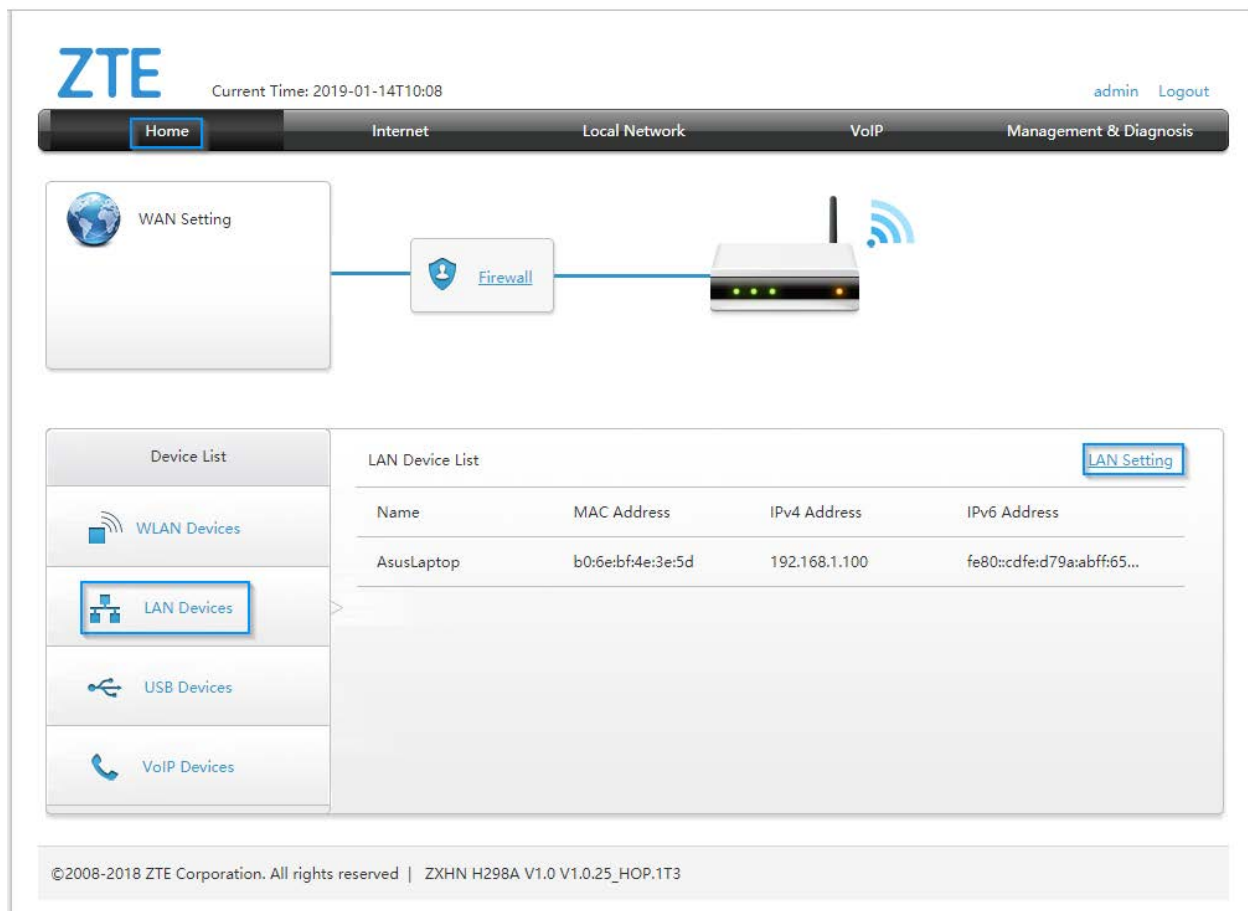
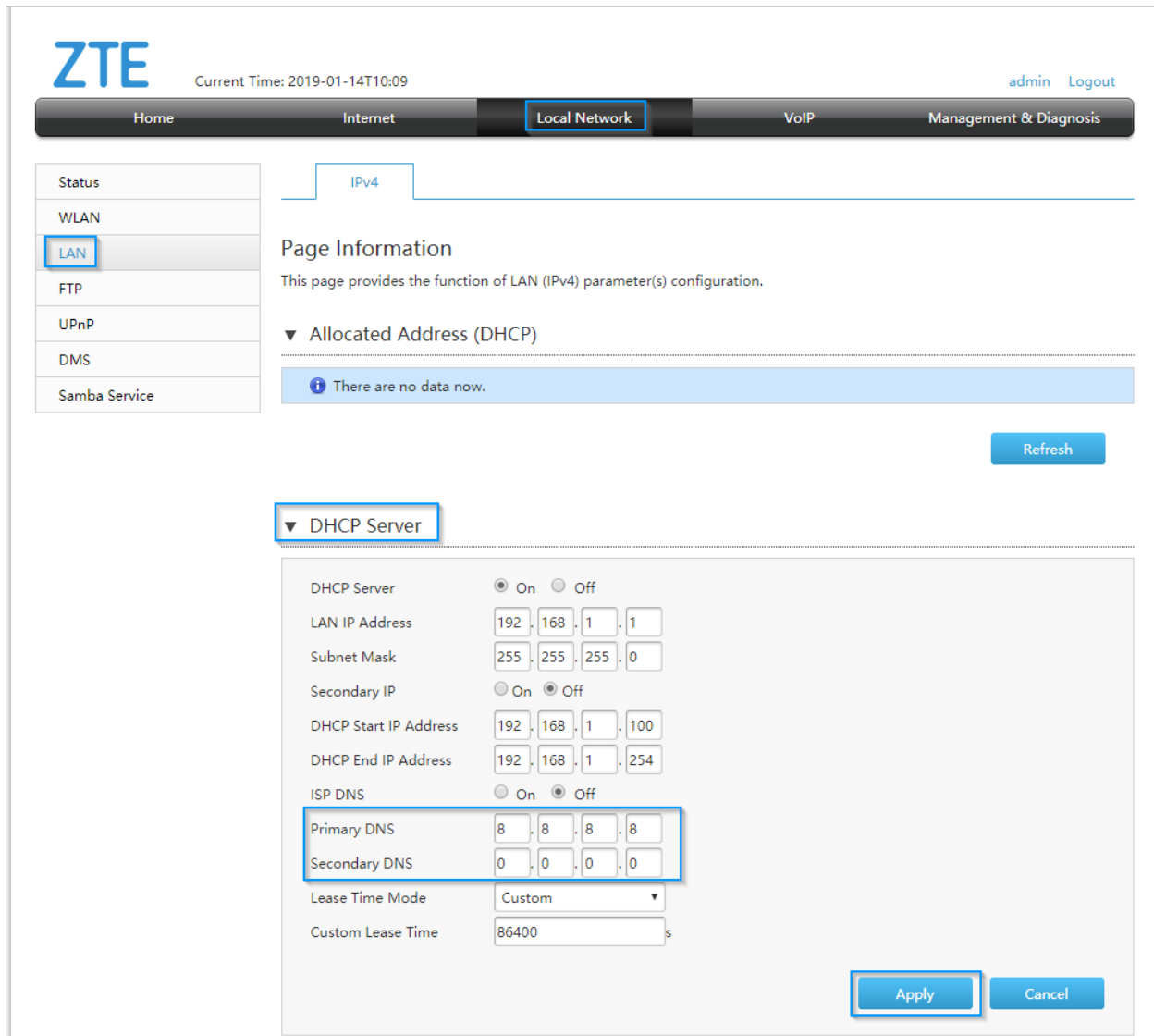


Image 12. Section of LAN Settings

Click on **DHCP Server** and edit **Primary DNS** and/or **Secondary DNS**. See Image 13, where DNS server with IPv4 address 8.8.8.8 is used. Click Apply.



The screenshot shows the ZTE H298A router's web interface. The top navigation bar includes 'Home', 'Internet', 'Local Network' (highlighted), 'VoIP', and 'Management & Diagnosis'. The left sidebar lists 'Status', 'WLAN', 'LAN' (highlighted), 'FTP', 'UPnP', 'DMS', and 'Samba Service'. The main content area is titled 'IPv4' and 'Page Information'. Below this, there is a section for 'Allocated Address (DHCP)' which states 'There are no data now.' and a 'Refresh' button. The 'DHCP Server' section is expanded, showing various configuration options. The 'Primary DNS' field is highlighted with a red box, showing the value '8.8.8.8'. Other fields include 'Secondary DNS' (0.0.0.0), 'Lease Time Mode' (Custom), and 'Custom Lease Time' (86400). The 'Apply' button is highlighted with a red box.

ZTE

Current Time: 2019-01-14T10:09

admin Logout

Home Internet Local Network VoIP Management & Diagnosis

Status

WLAN

LAN

FTP

UPnP

DMS

Samba Service

IPv4

Page Information

This page provides the function of LAN (IPv4) parameter(s) configuration.

▼ Allocated Address (DHCP)

There are no data now.

Refresh

▼ DHCP Server

DHCP Server ☒ On ☐ Off

LAN IP Address 192 . 168 . 1 . 1

Subnet Mask 255 . 255 . 255 . 0

Secondary IP ☐ On ☒ Off

DHCP Start IP Address 192 . 168 . 1 . 100

DHCP End IP Address 192 . 168 . 1 . 254

ISP DNS ☐ On ☒ Off

Primary DNS 8 . 8 . 8 . 8

Secondary DNS 0 . 0 . 0 . 0

Lease Time Mode Custom

Custom Lease Time 86400 s

Apply Cancel

Image 13. DNS change section of router configuration

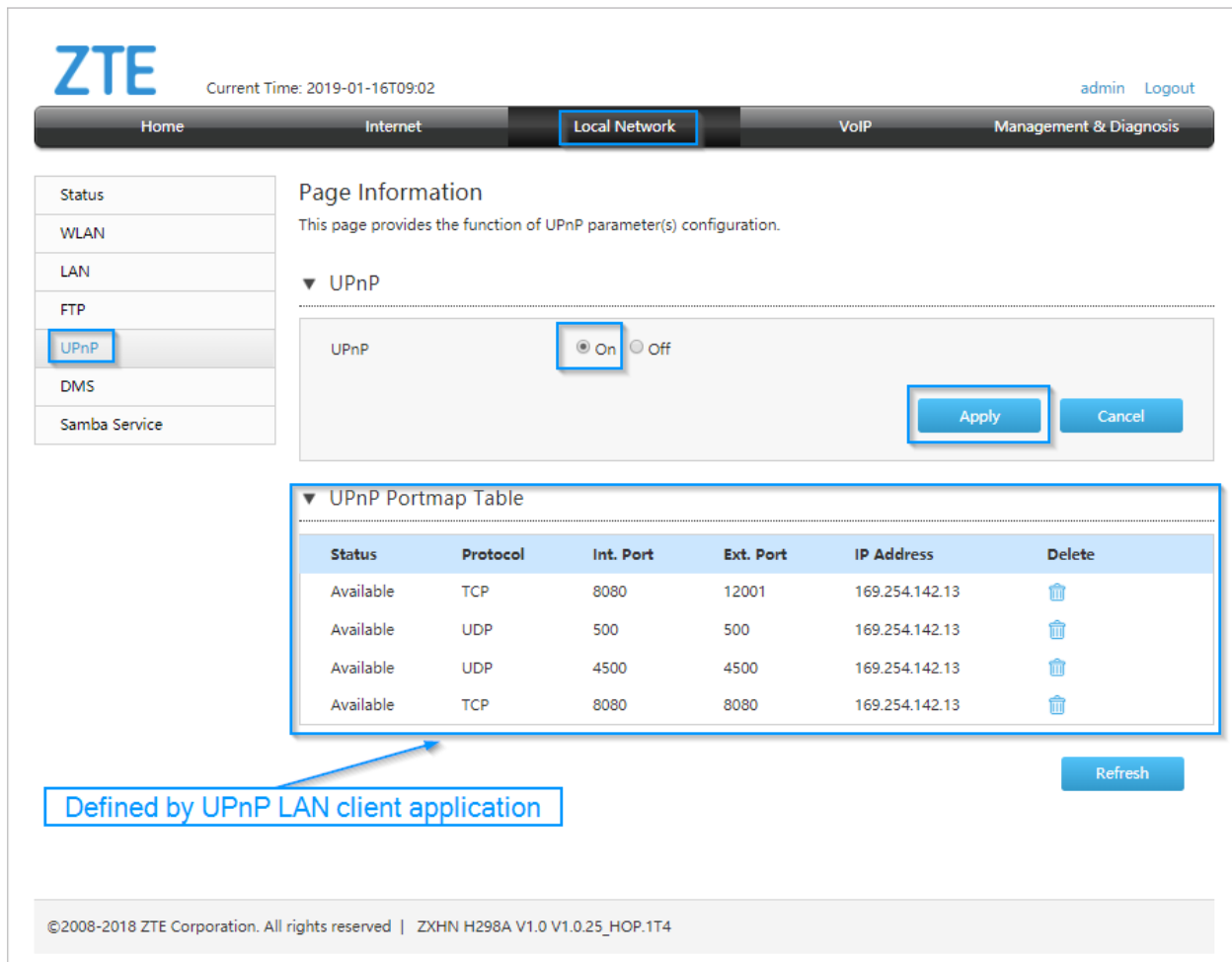
To complete the DNS change, please call Customer Support who will perform the final step for you.



## UPnP router configuration

To configure your router using LAN UPnP applications, please log into your router (page 2) and navigate to **Local Network > UPnP**. Click **On** to activate UPnP service. Click **Apply**.

See Image 14, where UPnP is used to configure port forwarding. If you're not using UPnP applications, UPnP should be set to Off (the default UPnP setting is Off).



**ZTE** Current Time: 2019-01-16T09:02 admin Logout

Home Internet **Local Network** VoIP Management & Diagnosis

Status  
WLAN  
LAN  
FTP  
**UPnP**  
DMS  
Samba Service





**Page Information**  
This page provides the function of UPnP parameter(s) configuration.

▼ UPnP

UPnP ☒ On ☐ Off

Apply Cancel

▼ UPnP Portmap Table

Status	Protocol	Int. Port	Ext. Port	IP Address	Delete
Available	TCP	8080	12001	169.254.142.13	
Available	UDP	500	500	169.254.142.13	
Available	UDP	4500	4500	169.254.142.13	
Available	TCP	8080	8080	169.254.142.13	

Refresh

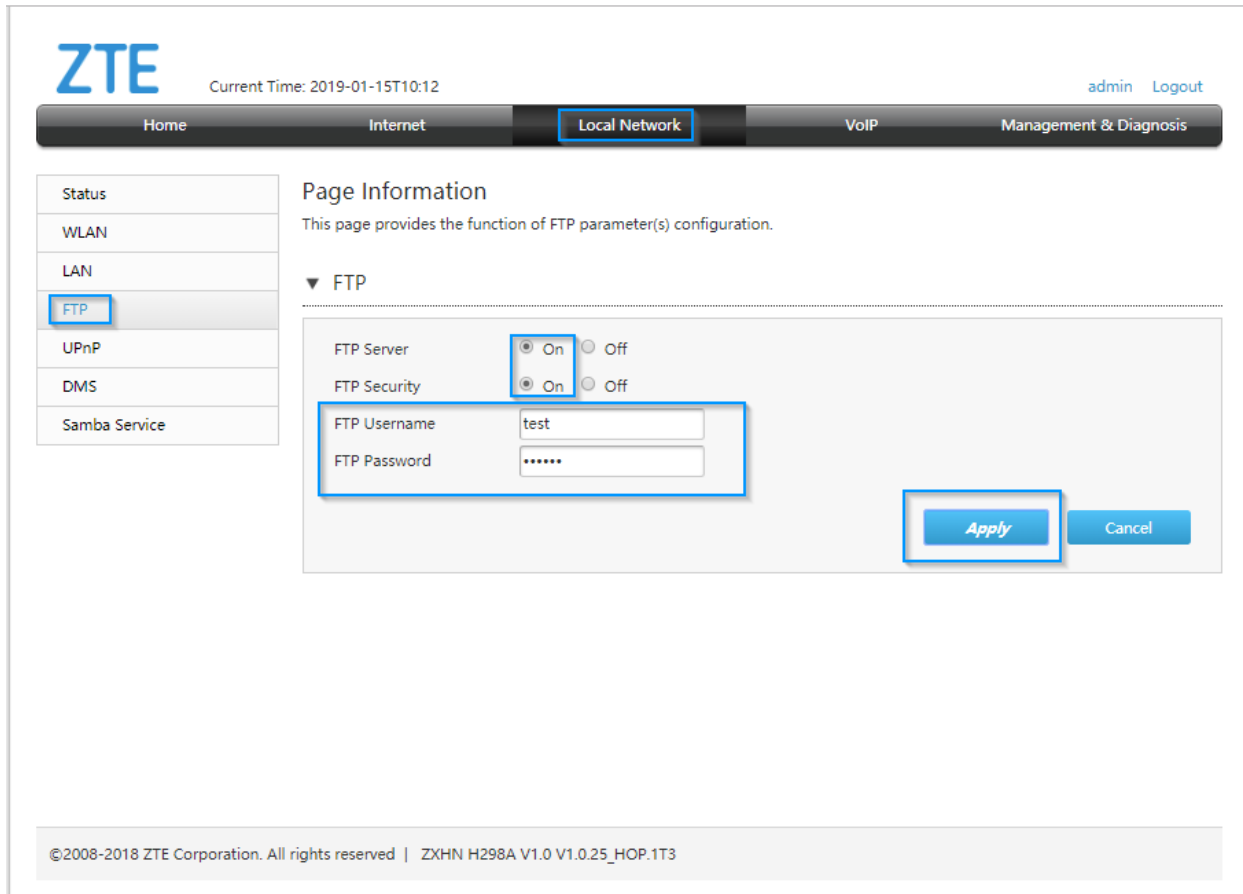
Defined by UPnP LAN client application

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Image 14. Enabling UPnP

## USB storage

You can access the USB storage port on your router from a LAN client. To grant access to USB flash, please log into your router (page 2) and navigate to **Local Network > FTP**. Enable FTP server and enable security (click **On** buttons). Once enabled, configure **FTP username** and **FTP password** and click **Apply**. See Image 15. Your router's USB port with attached flash drive can be used as additional storage, linked to LAN network.



**ZTE** Current Time: 2019-01-15T10:12 admin Logout

Home Internet **Local Network** VoIP Management & Diagnosis

Status  
WLAN  
LAN  
**FTP**  
UPnP  
DMS  
Samba Service

**Page Information**  
This page provides the function of FTP parameter(s) configuration.

▼ **FTP**

FTP Server ☒ On ☐ Off  
FTP Security ☒ On ☐ Off  
FTP Username   
FTP Password   
**Apply** Cancel

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Image 15. Enabling FTP access to USB flash

From local LAN station, access can be performed by typing <ftp://192.168.1.1> in web browser. See Image 16. Using your web browser, it's only possible to download - but if FTP client is used (e.g. FileZilla), upload is also possible.



Image 16. LAN access to USB flash drive

Remote FTP access to USB flash drive requires advanced router configuration, and can be done on request.

Access to USB flash drive from LAN can be achieved via Digital Media Server feature. See Image 17. Navigate to **Local Network > DMS**. Click **On** and **Apply** settings. LAN applications that support DMS will enable access to USB drive. Example of such an application is VLC player, Windows Media Player.

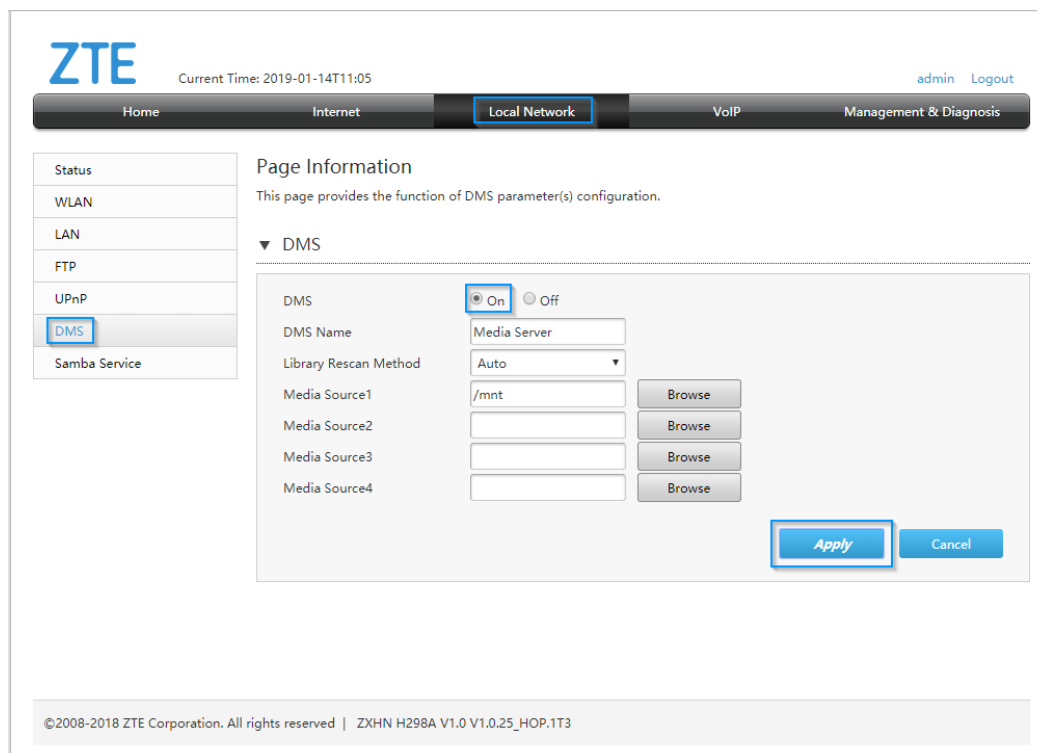


Image 17. Enabling Digital Media Server feature

You can also access USB flash drive from PC application. See Image 18.

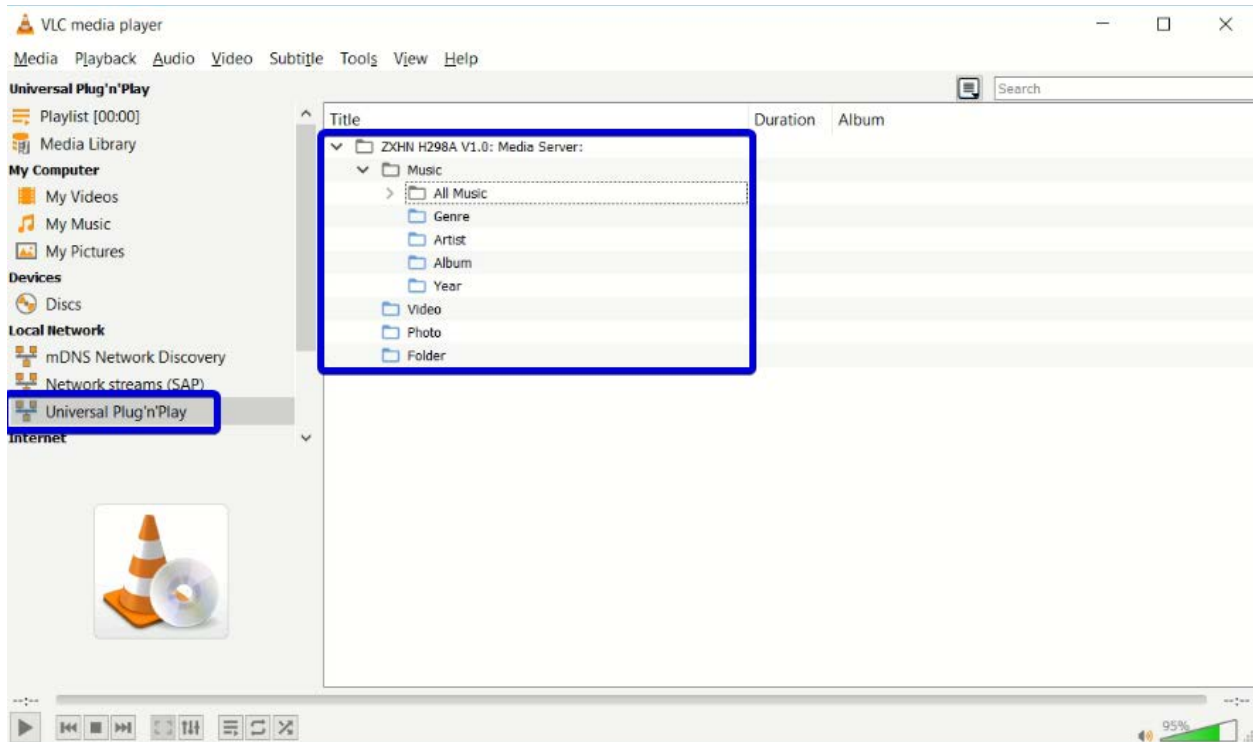


Image 18. Access to USB flash drive from PC application

ccess to USB flash drive is also possible using SMB service. See Image 19. Navigate to **Local Network** > **Samba Service**. Click **On** and **Apply**. See Image 20 for confirmation of samba service.

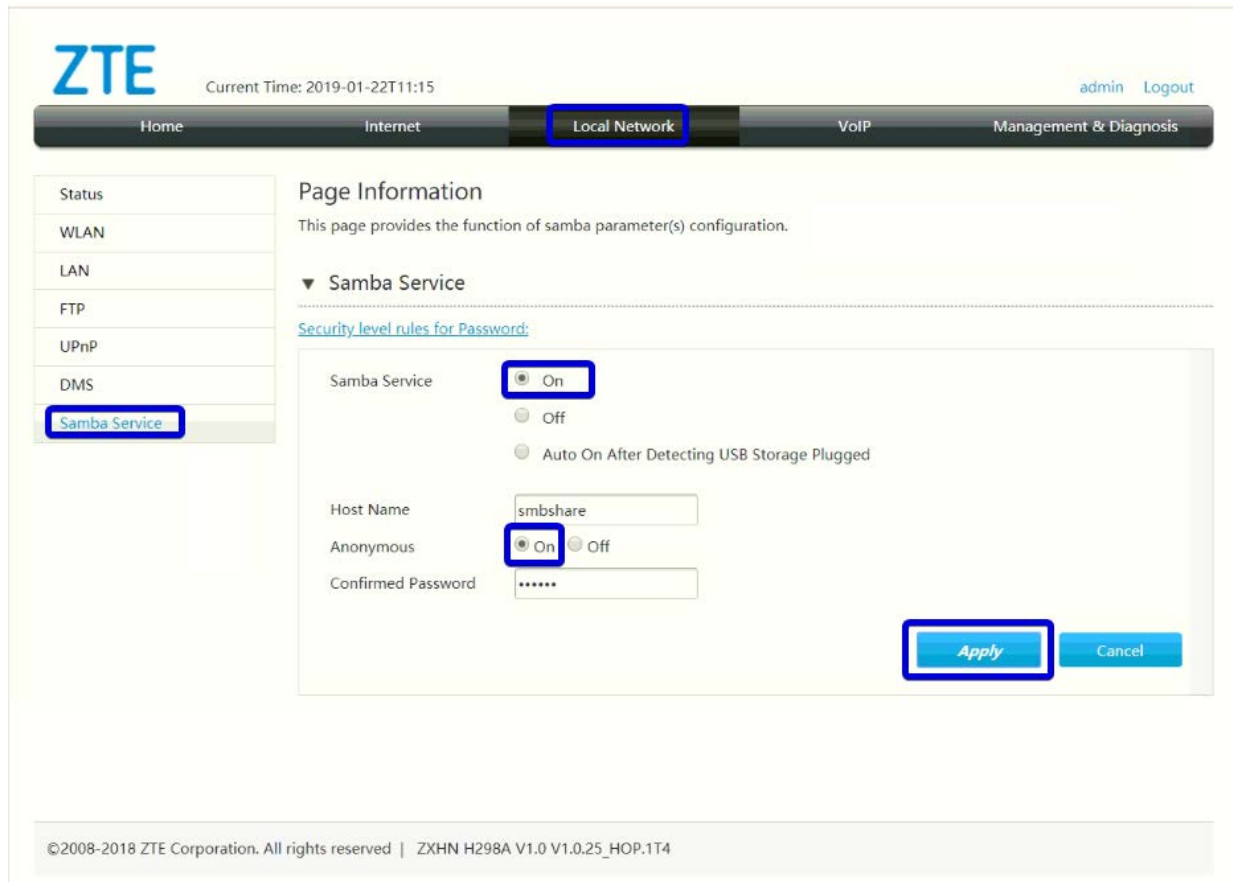


Image 19. Enabling Samba service on a router

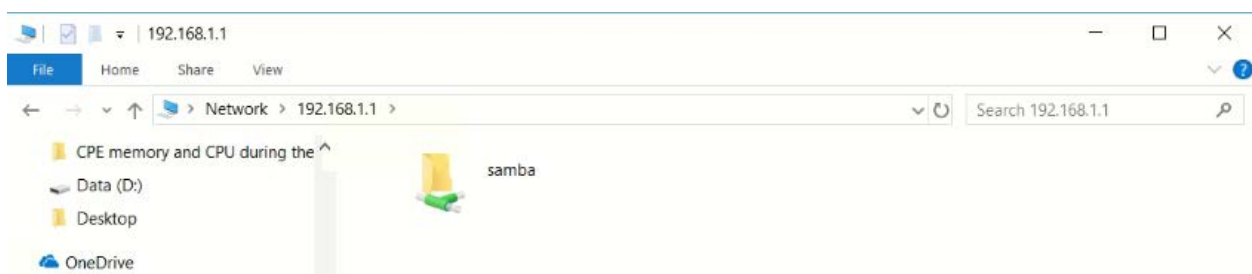


Image 20. Access form LAN PC (type \\192.168.1.1 in web browser)