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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.**

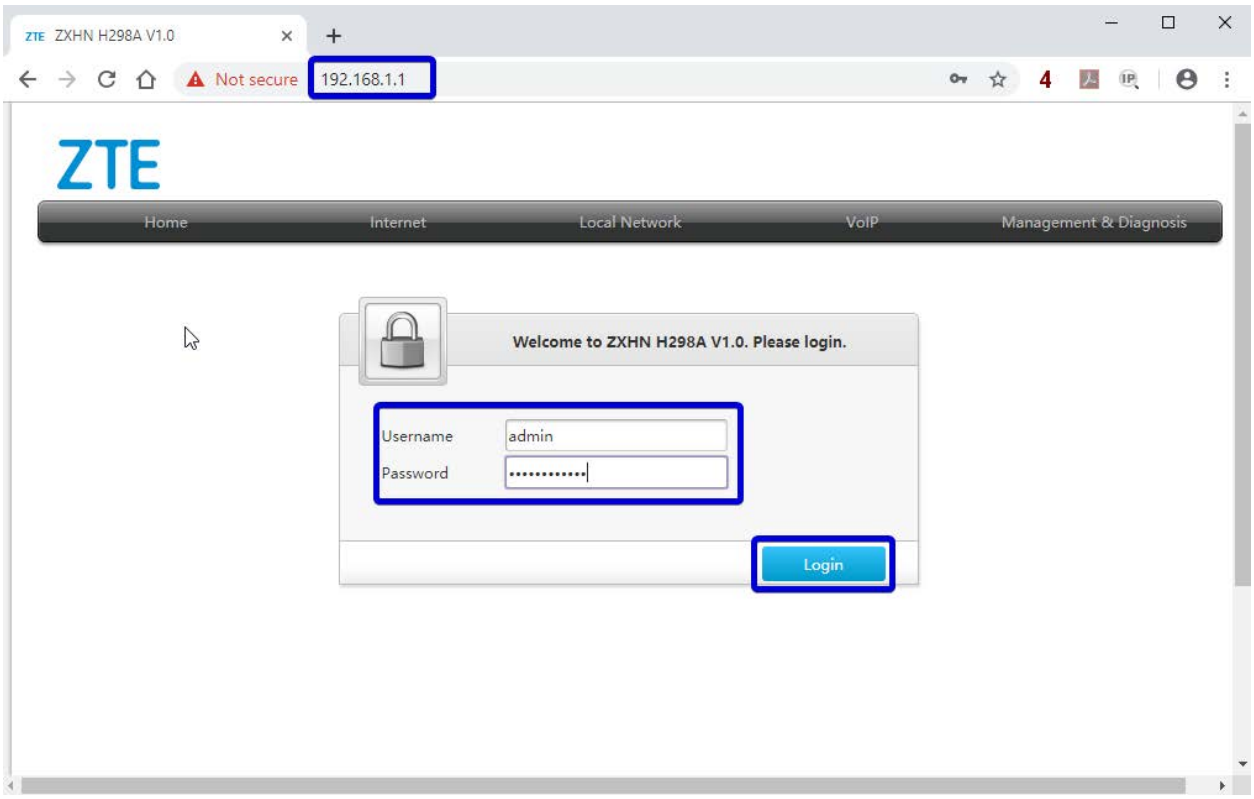

Image 1. Router H298A login screen

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**.

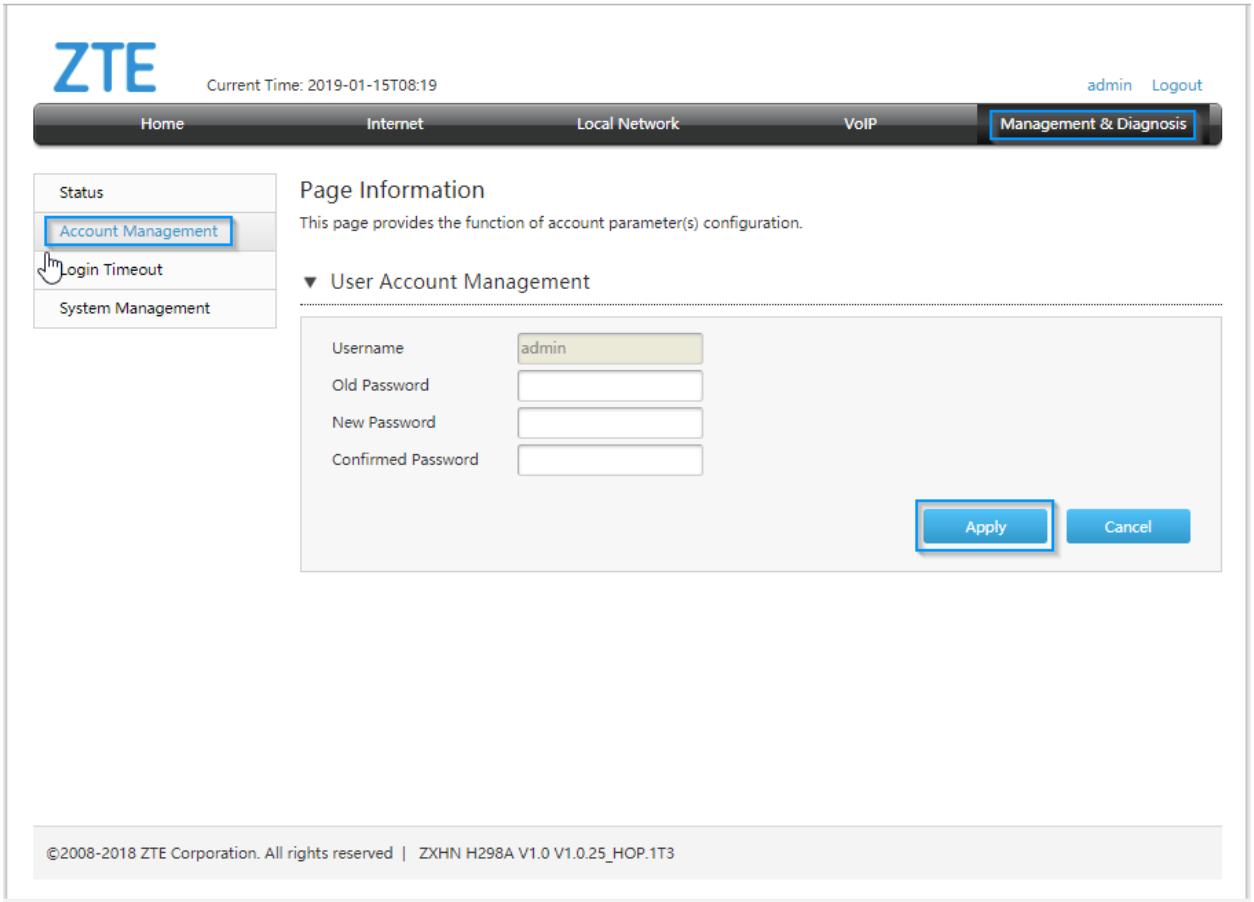

Image 2. Changing admin password

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.

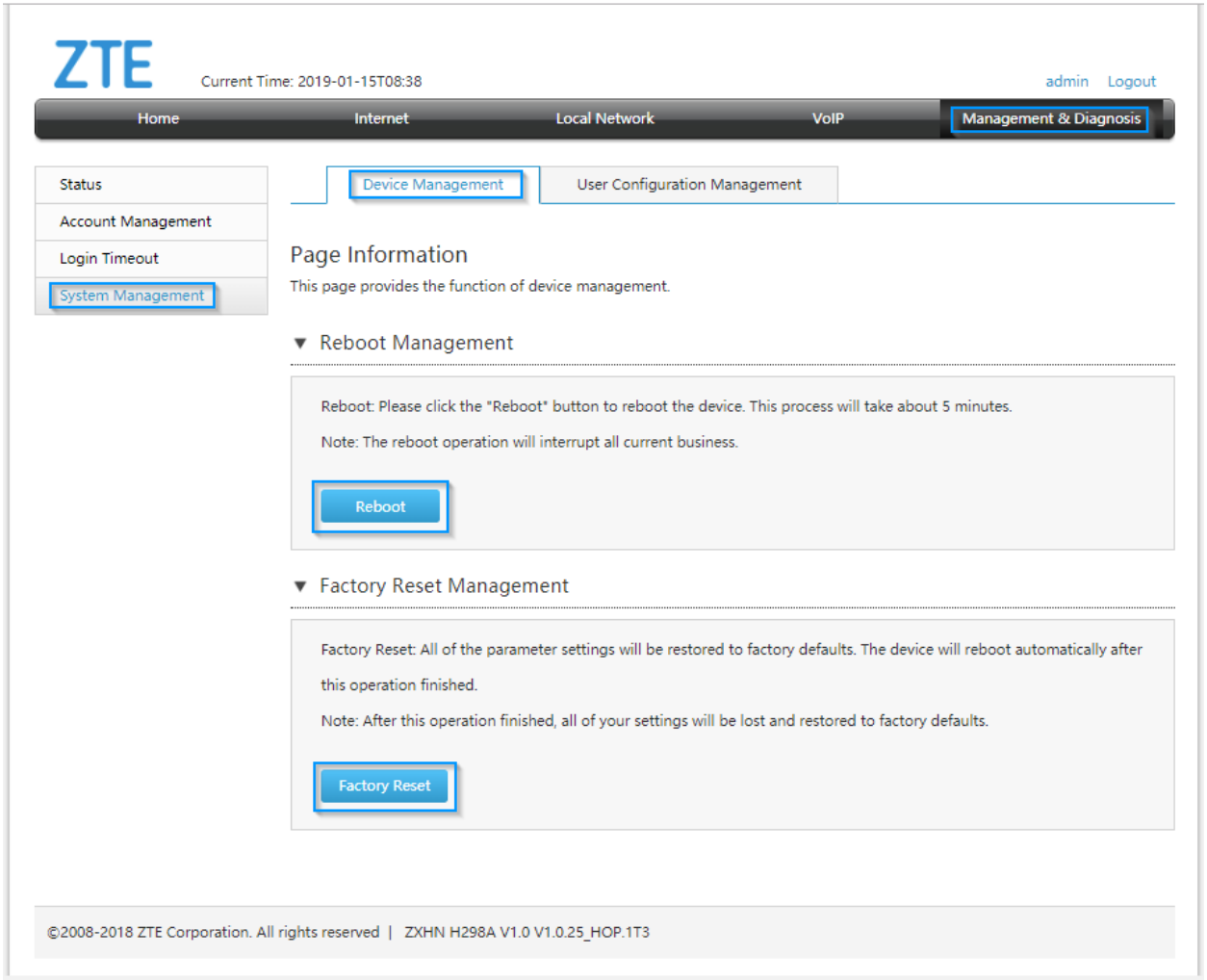

Image 3. Reboot and factory reset

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.

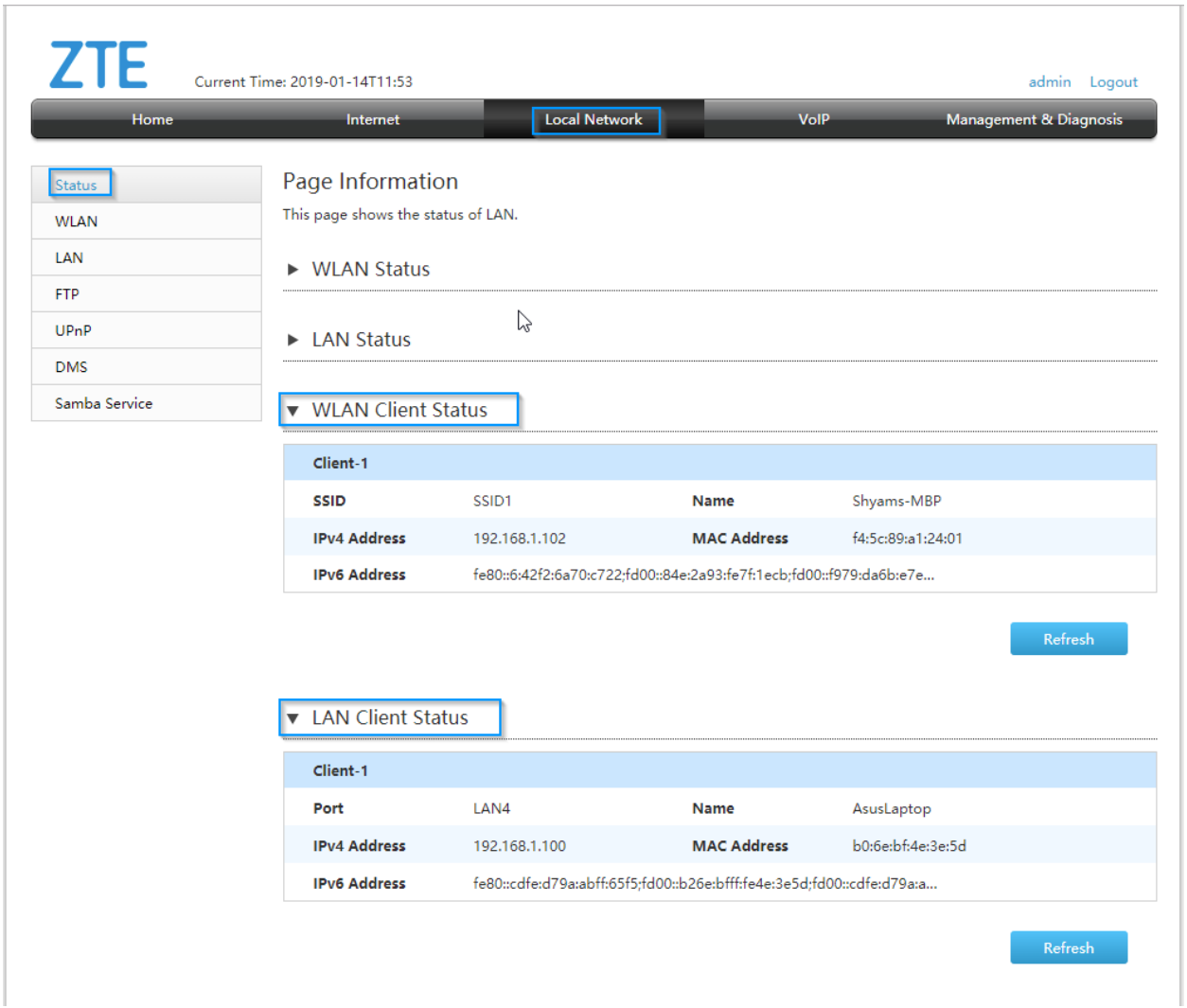

Image 4. List of WLAN and Ethernet LAN clients

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**.

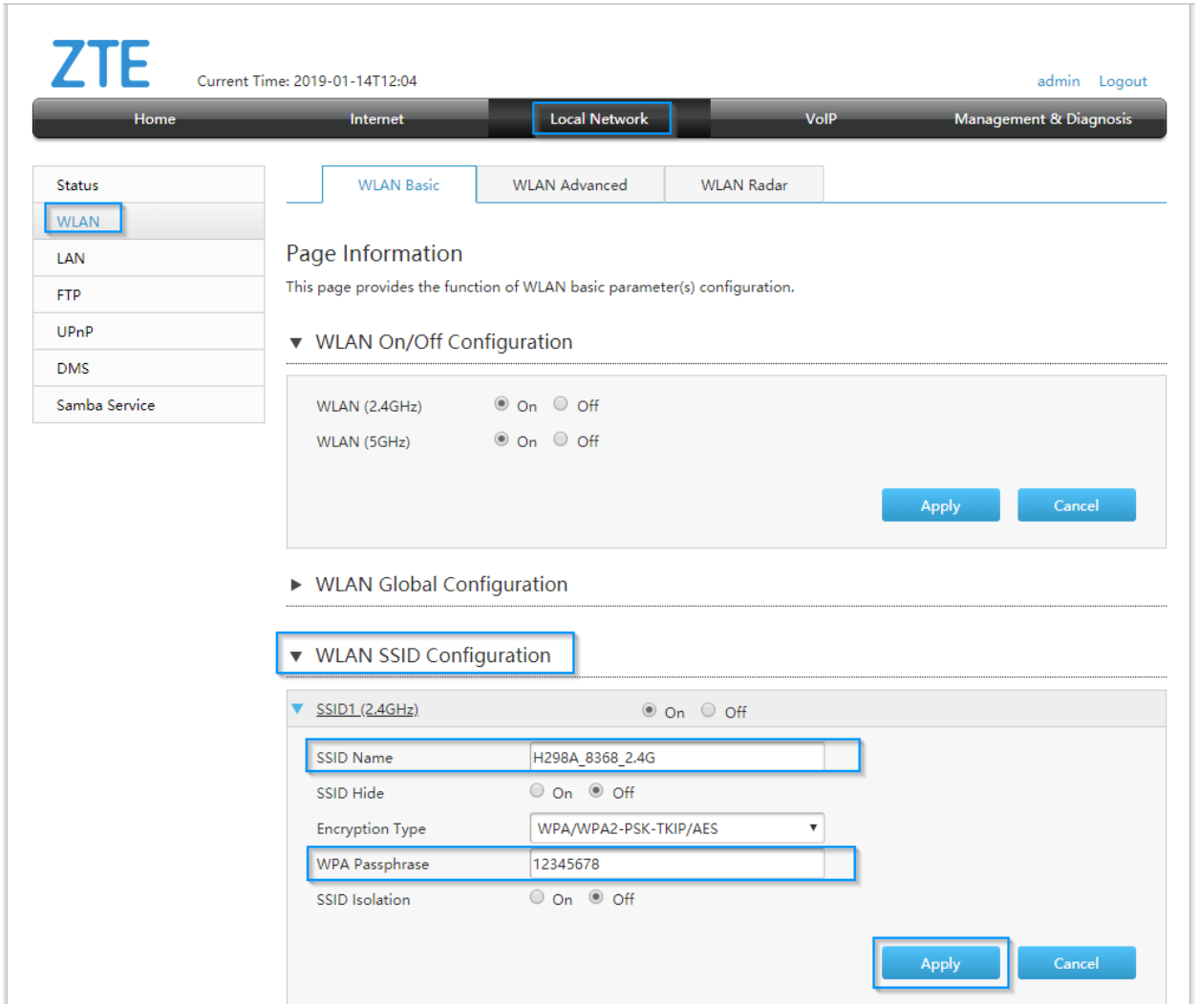

Image 5. Configuration of 2.4GHz wifi parameters

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**.

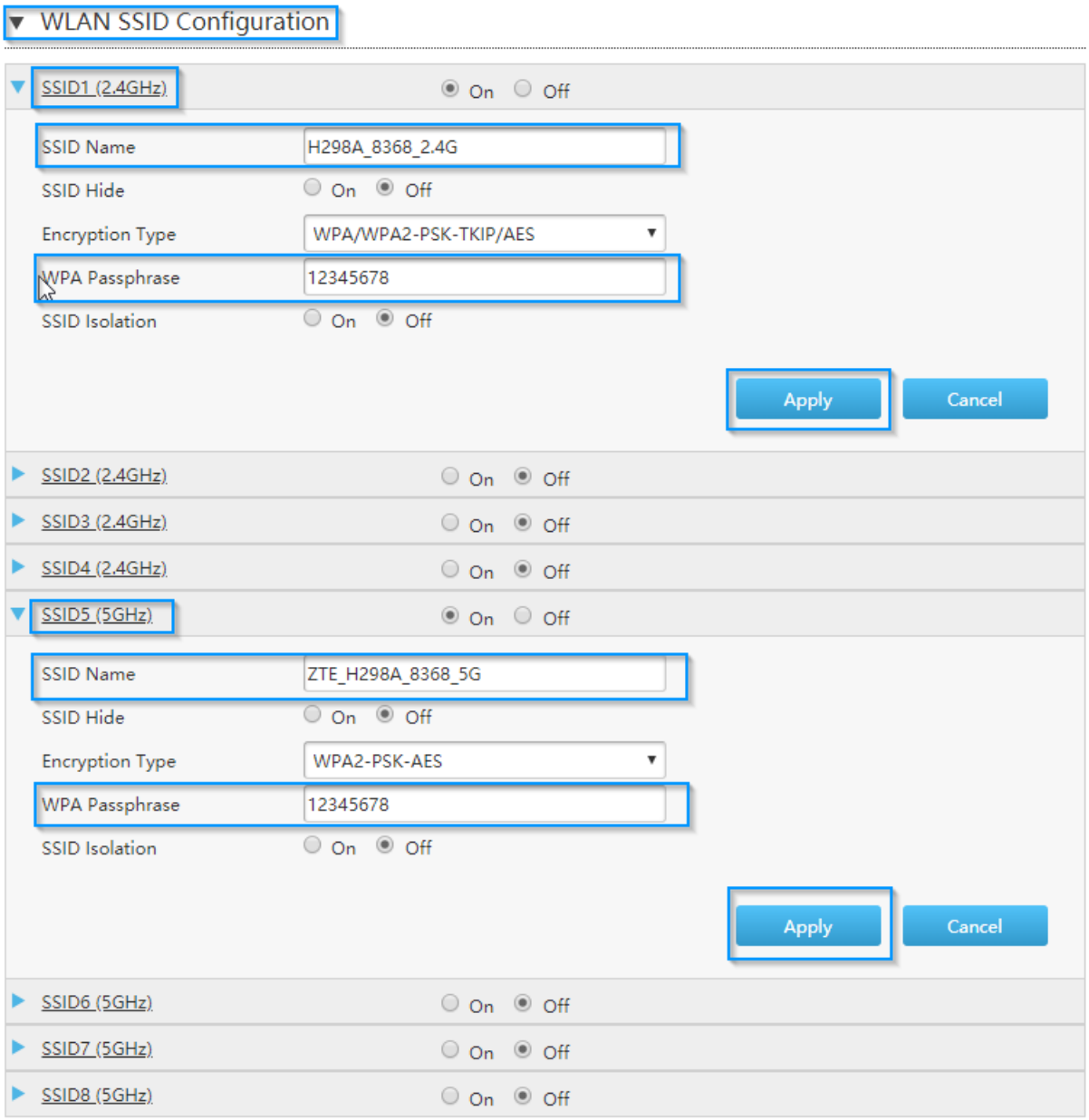

Image 6. Configuration of 5GHz wifi parameters

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.

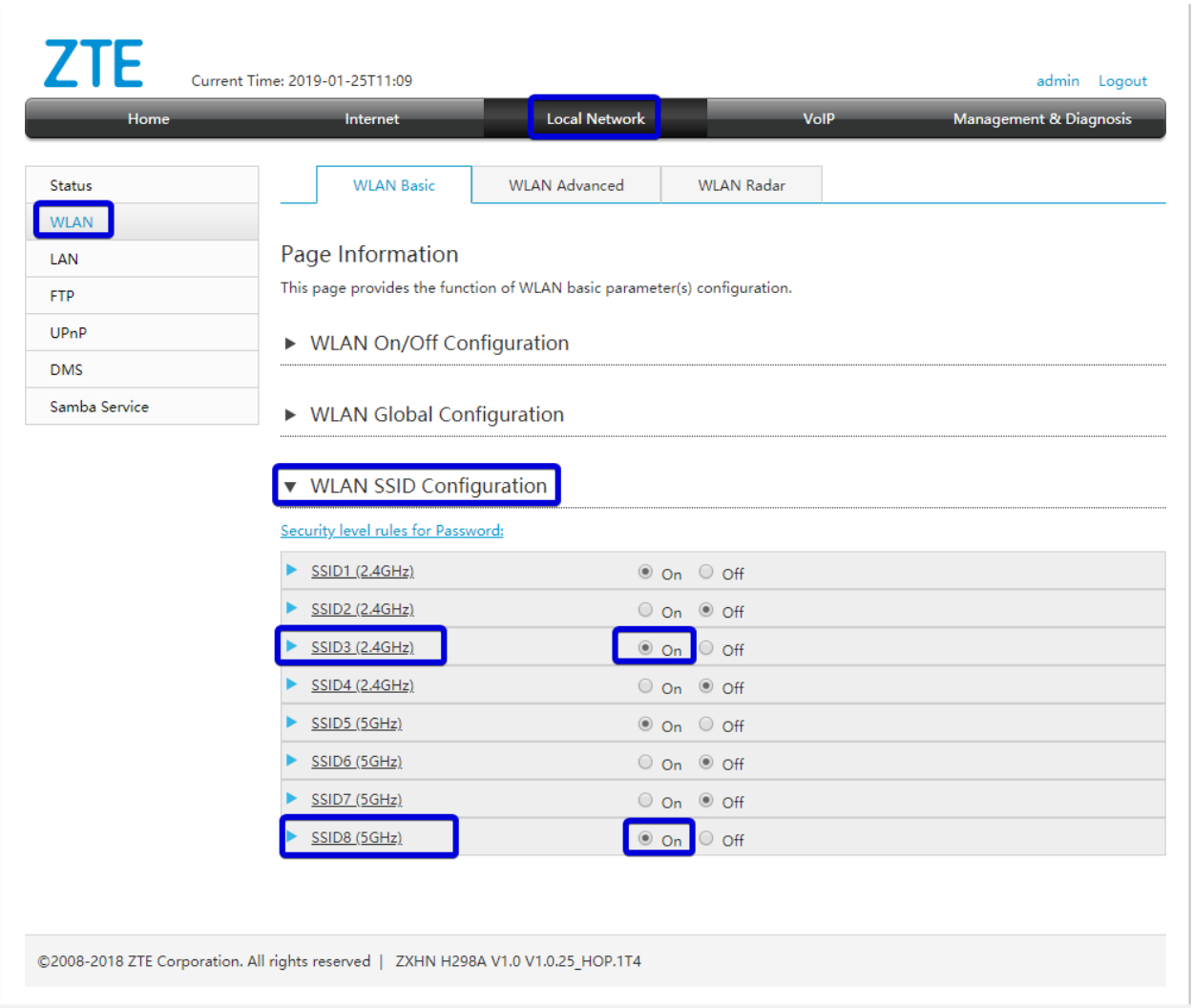

Image 7. Creating new SSID for 2.4GHz and 5GHz

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**.

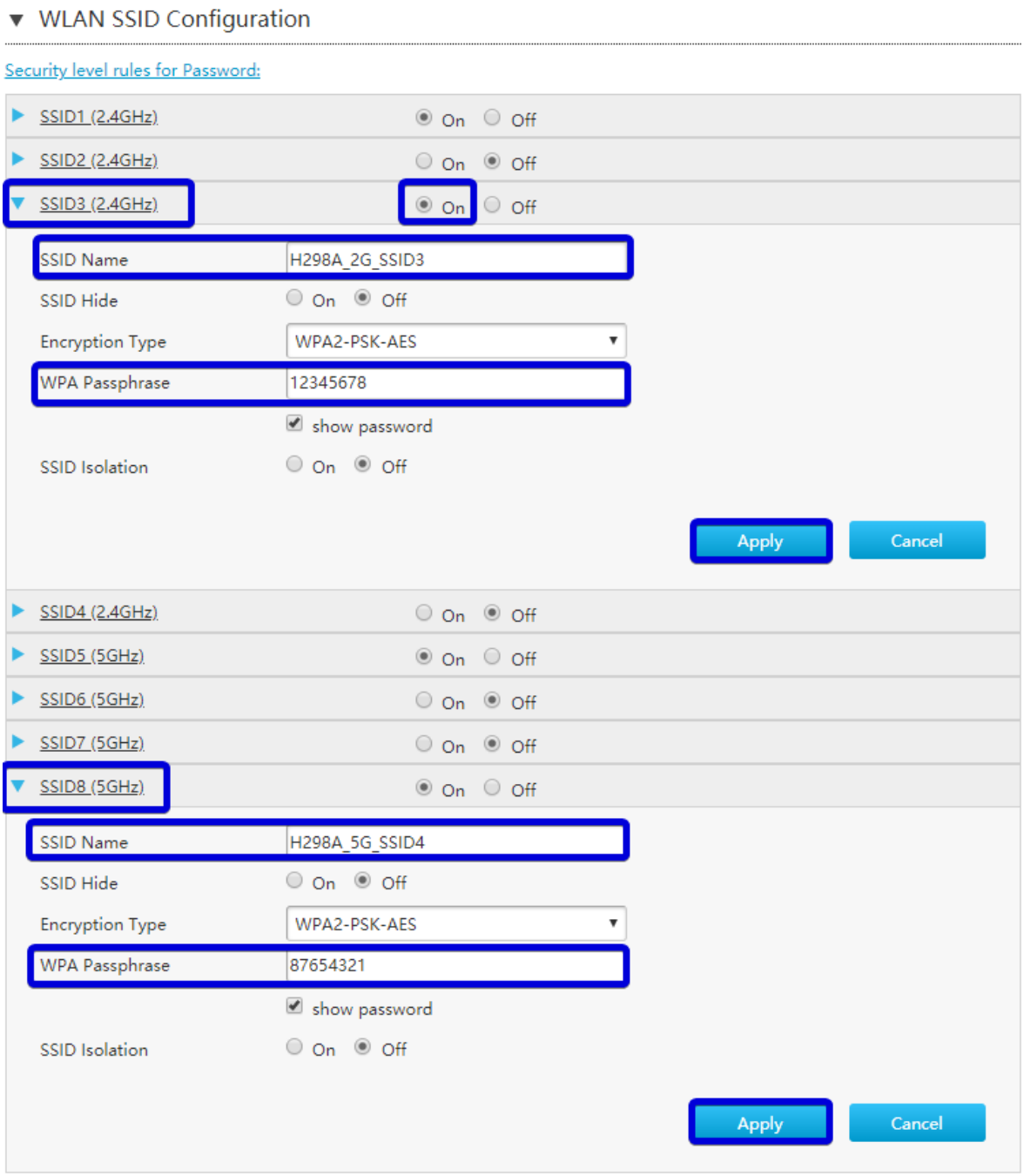

Image 8. Changing SSID Name and WPA Passphrase for new SSIDs

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.

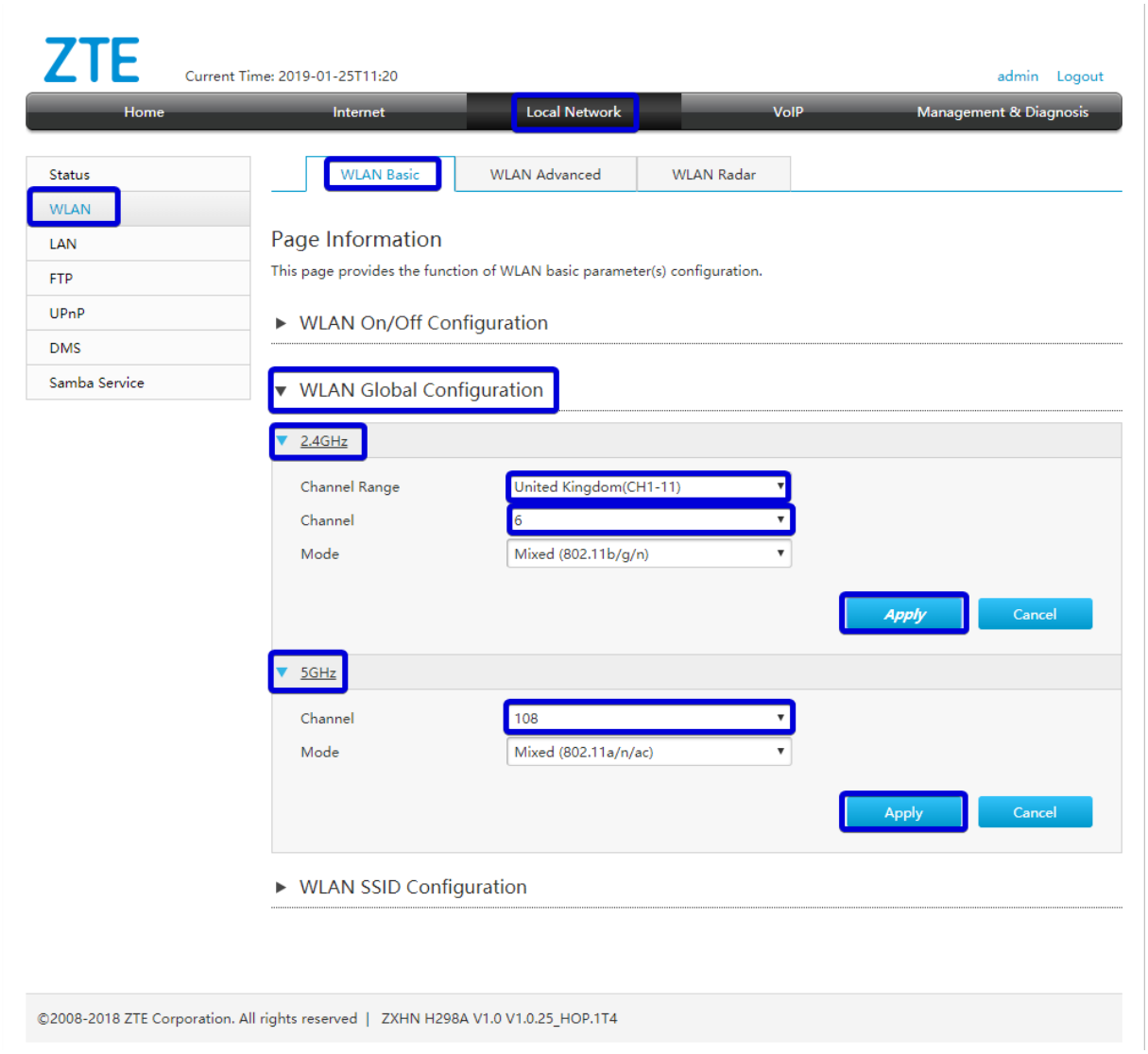

Image 9. Selecting channel for wifi

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.

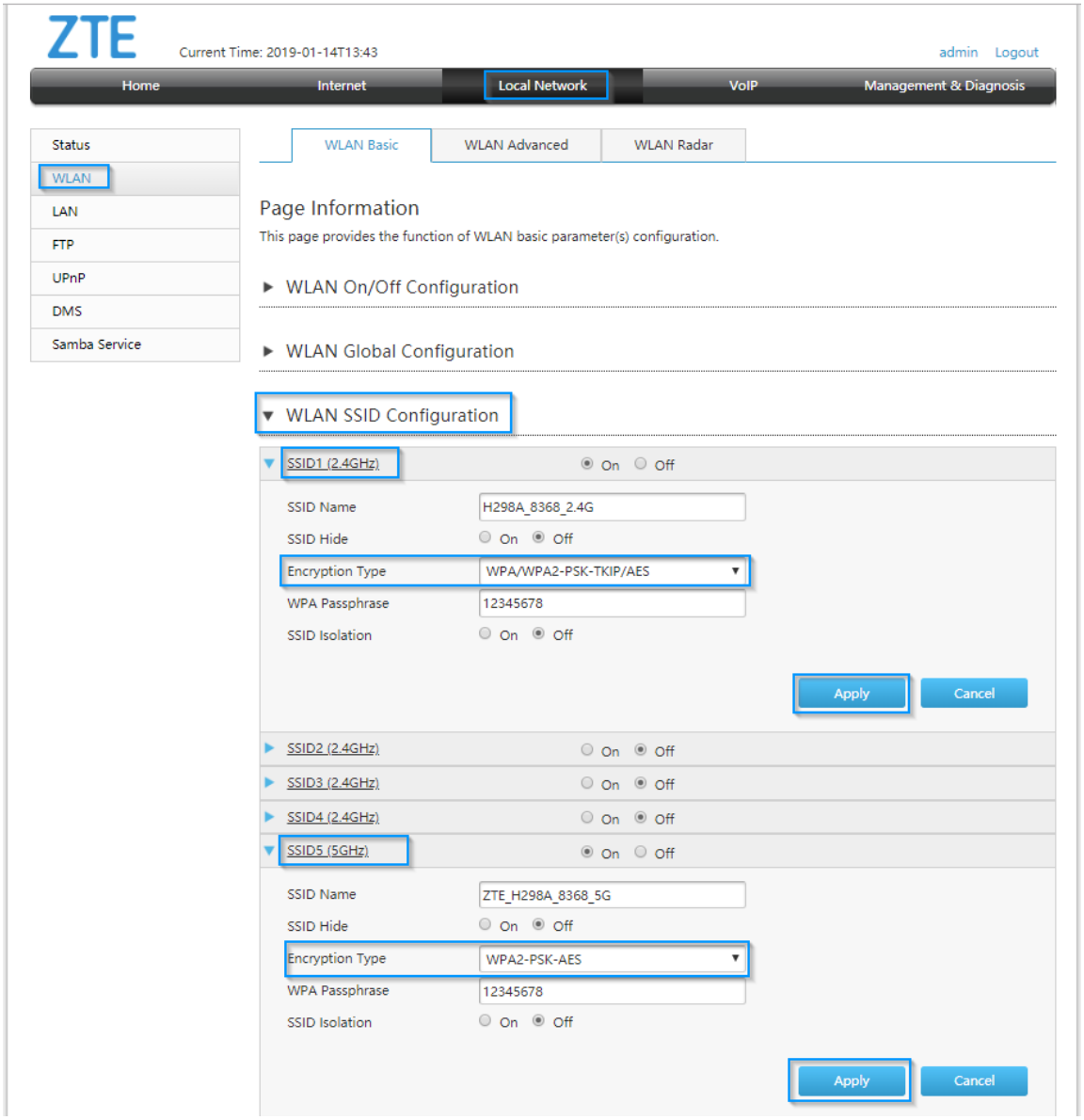

Image 10. Encryption types per SSID

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.

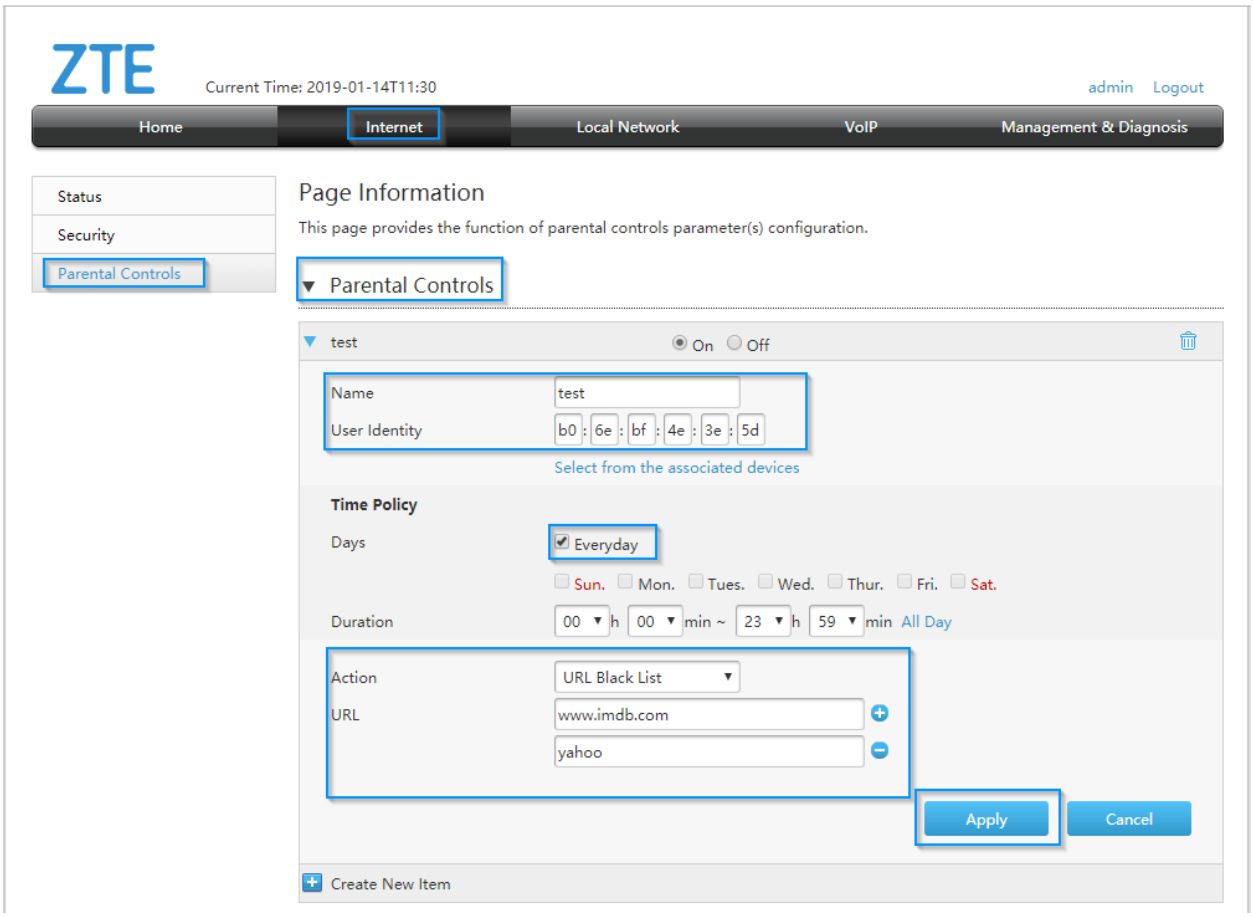

Image 11. Example of traffic blocking to Yahoo and imdb

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.

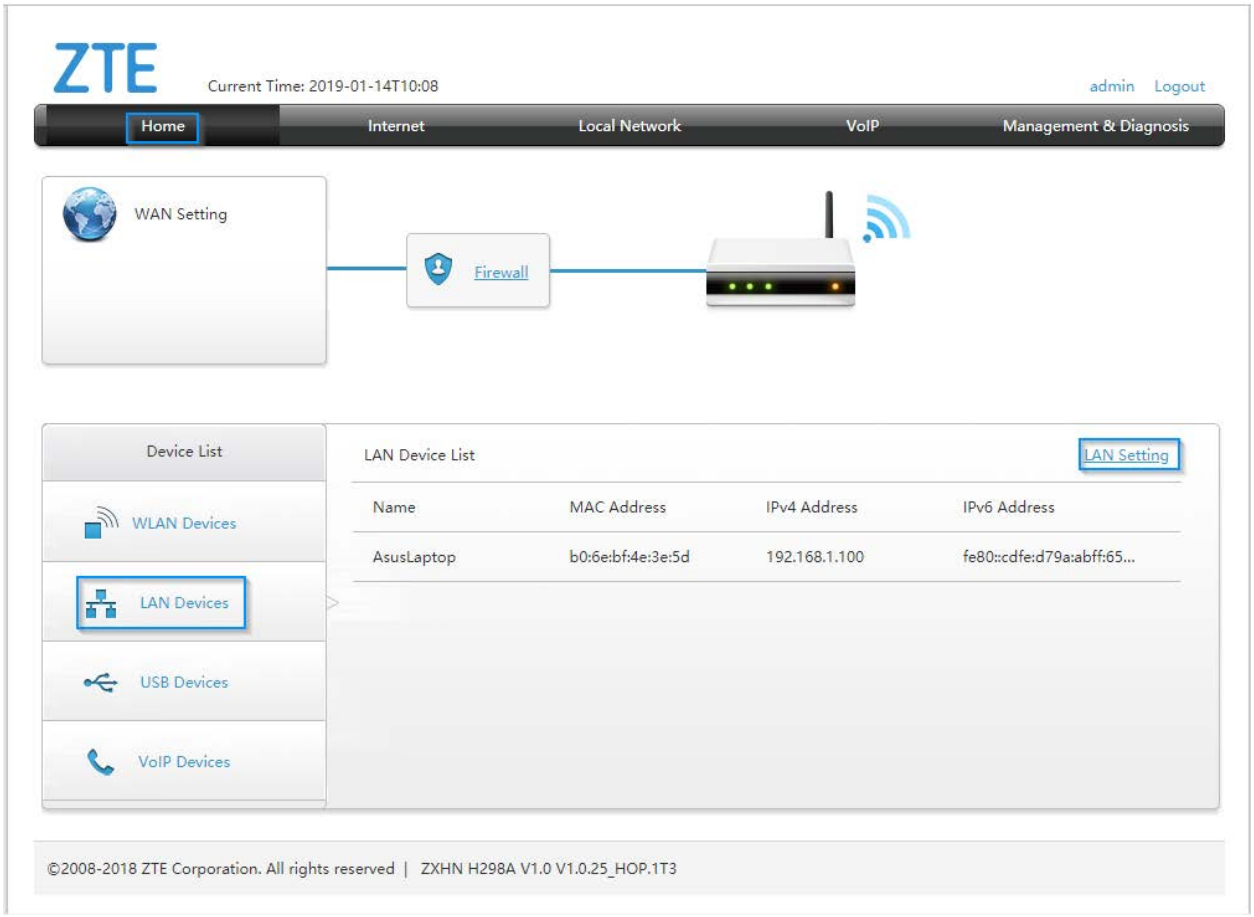

Image 12. Section of LAN Settings

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.

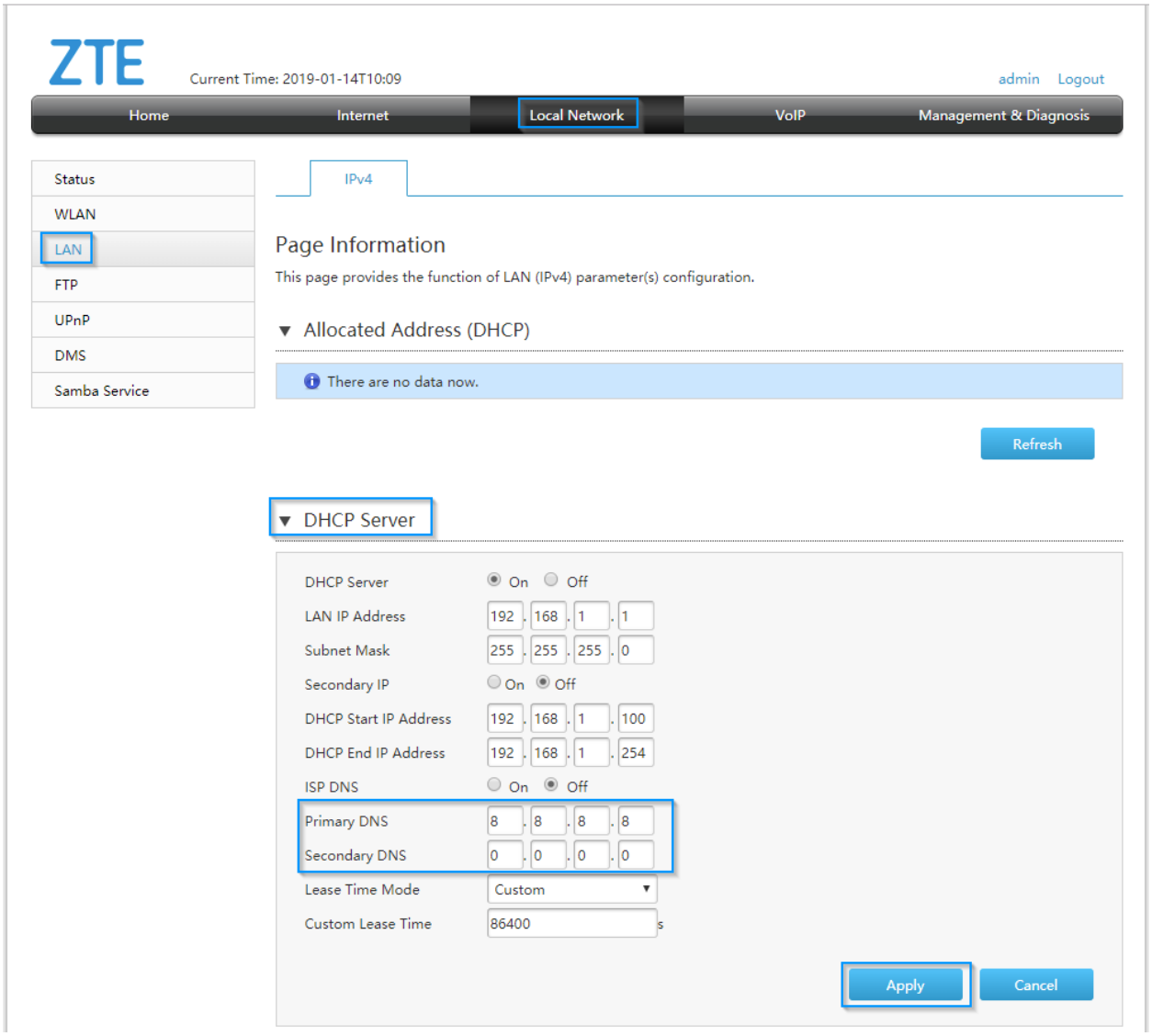

Image 13. DNS change section of router configuration

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).

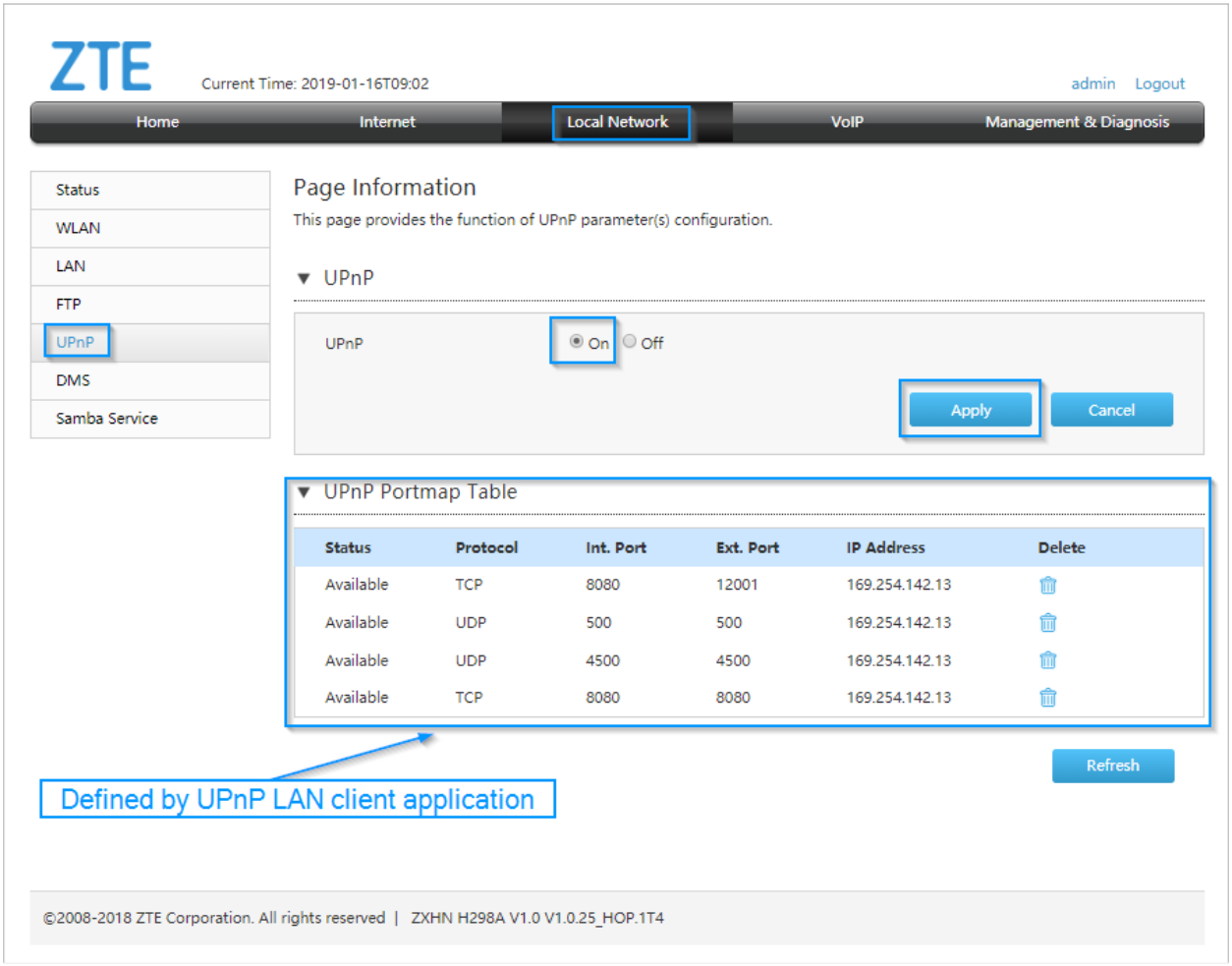

Image 14. Enabling UPnP

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.

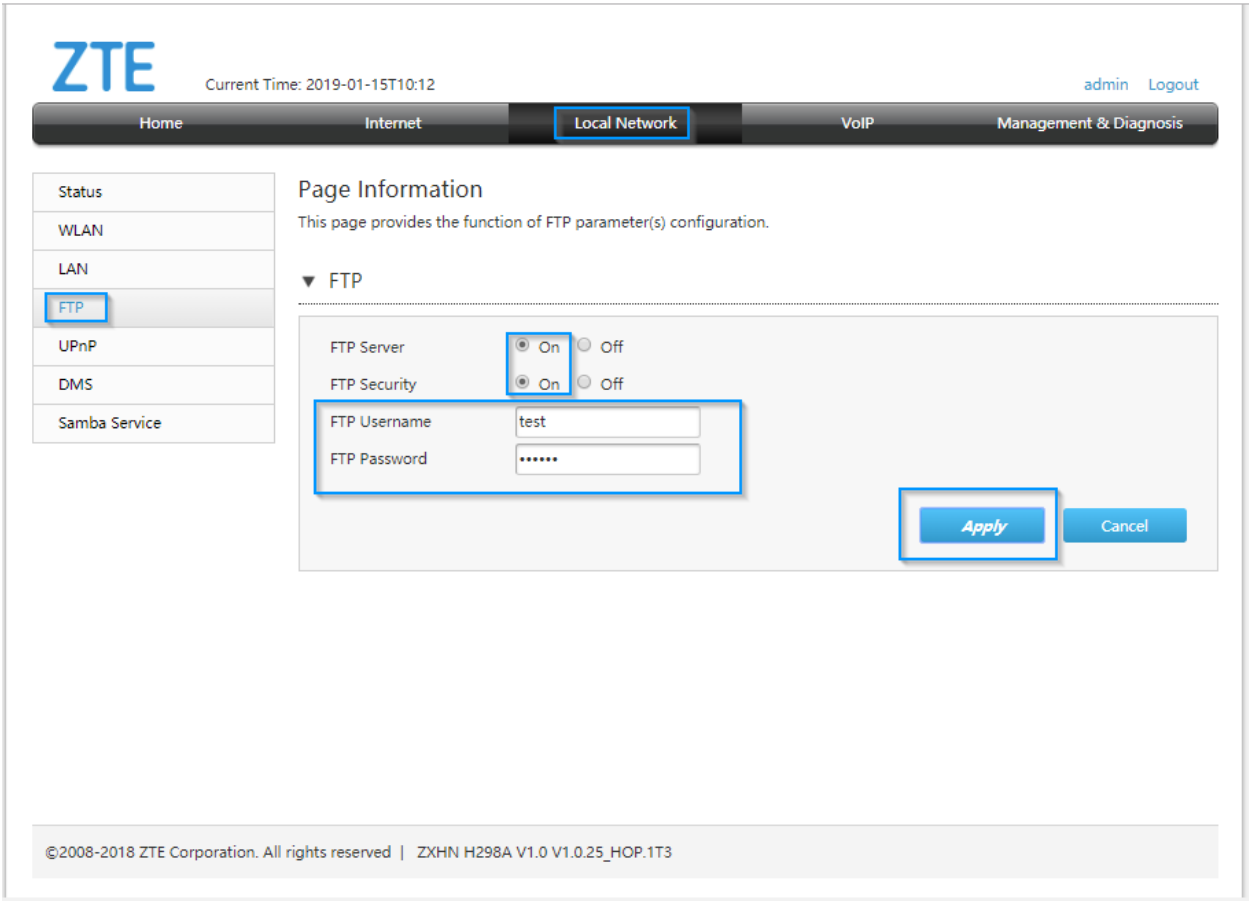

Image 15. Enabling FTP access to USB flash

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.

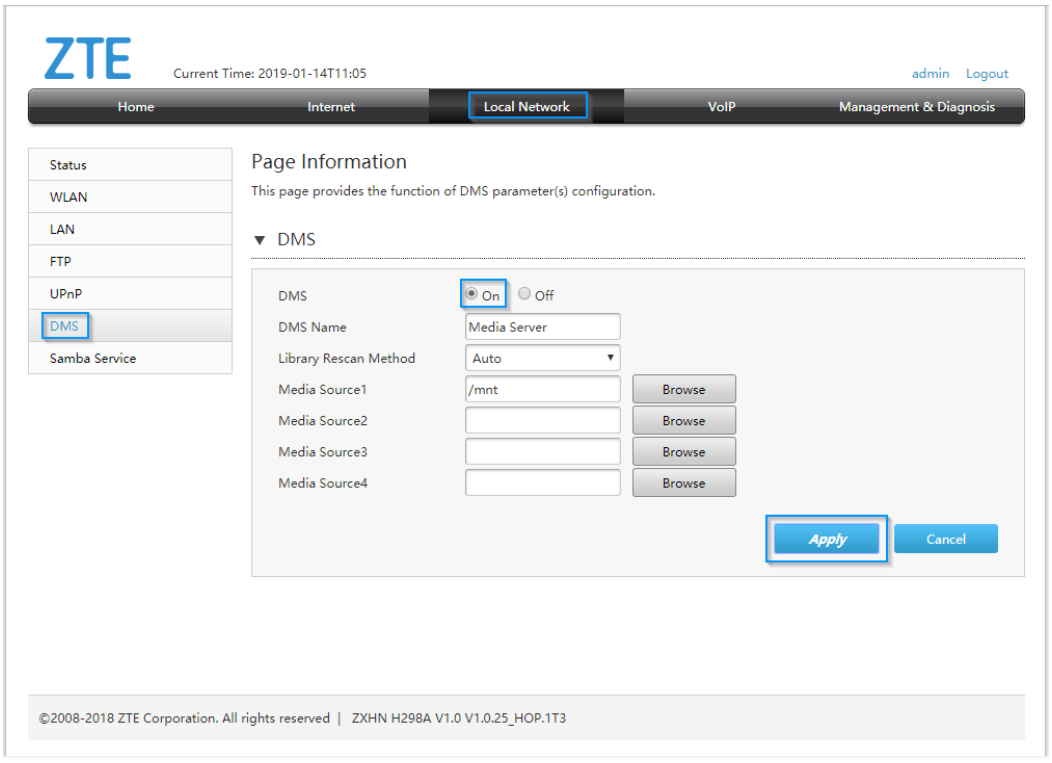

Image 17. Enabling Digital Media Server feature

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

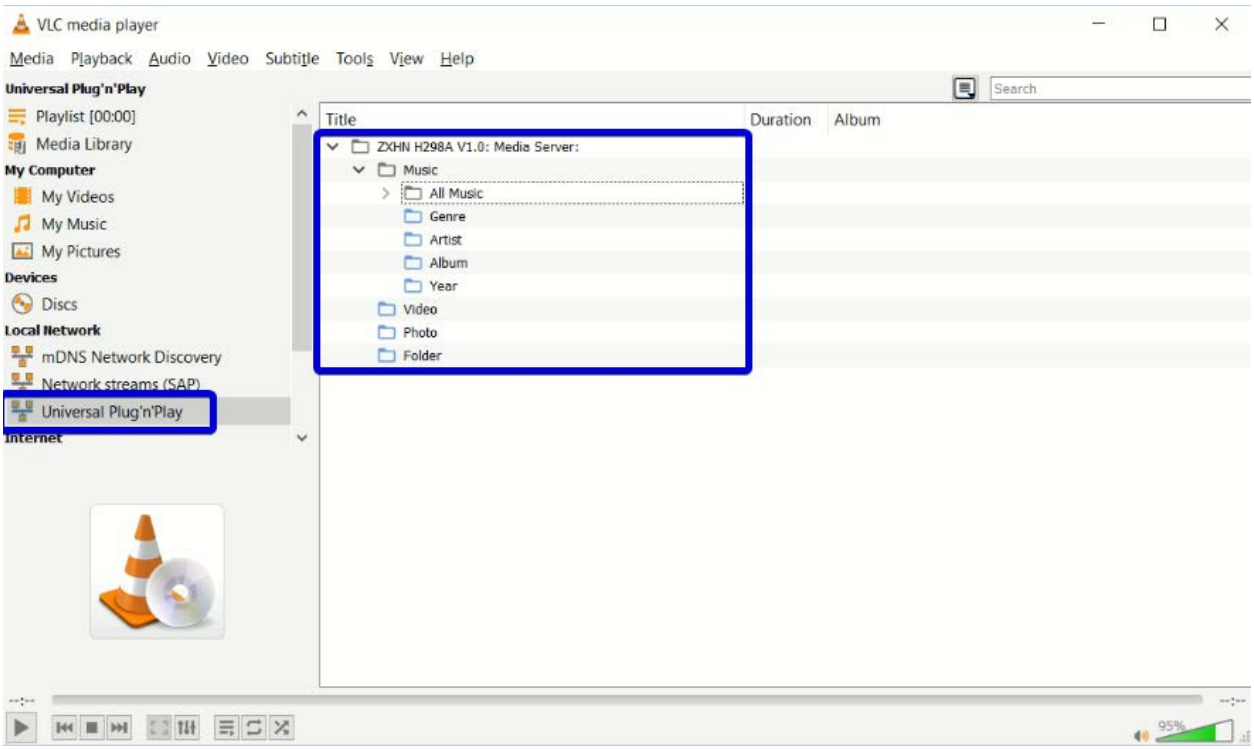

Image 18. Access to USB flash drive from PC application

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.

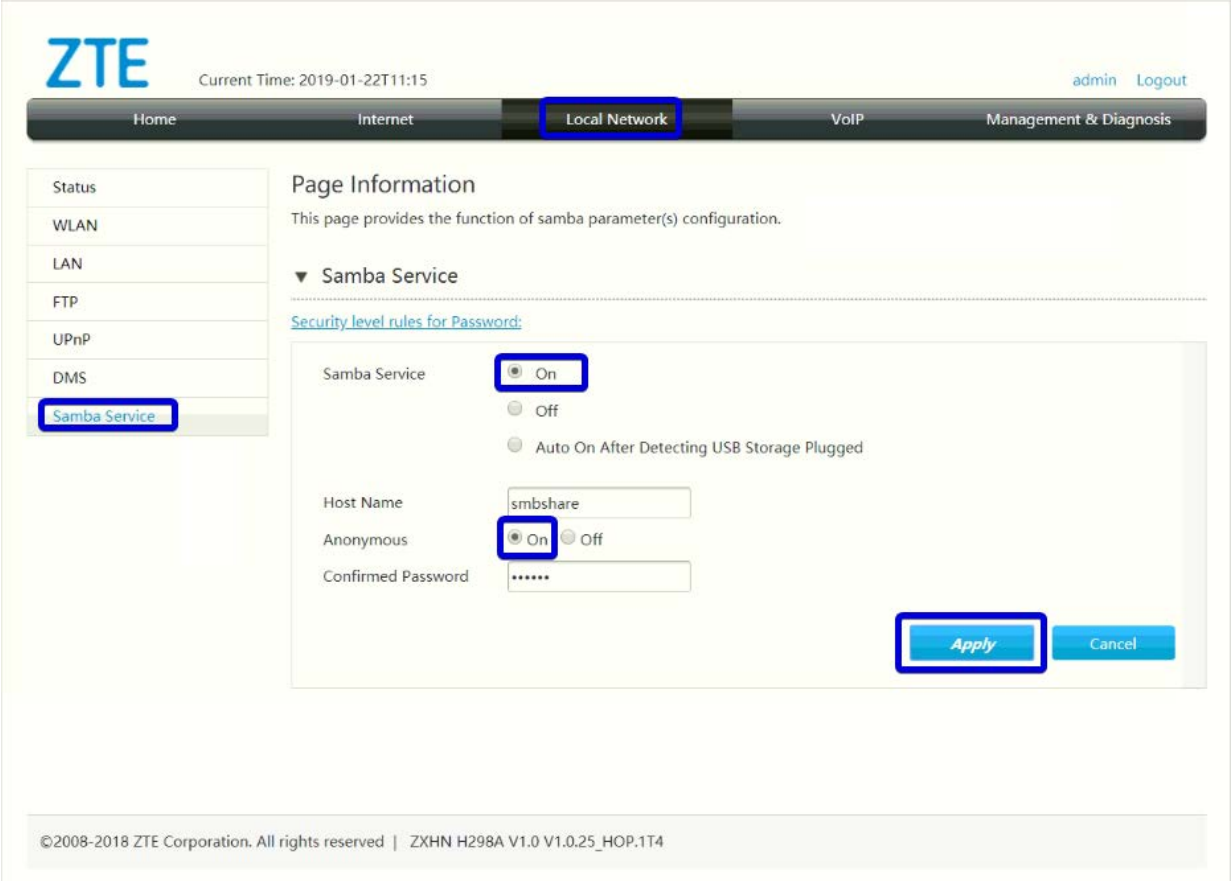

Image 19. Enabling Samba service on a router

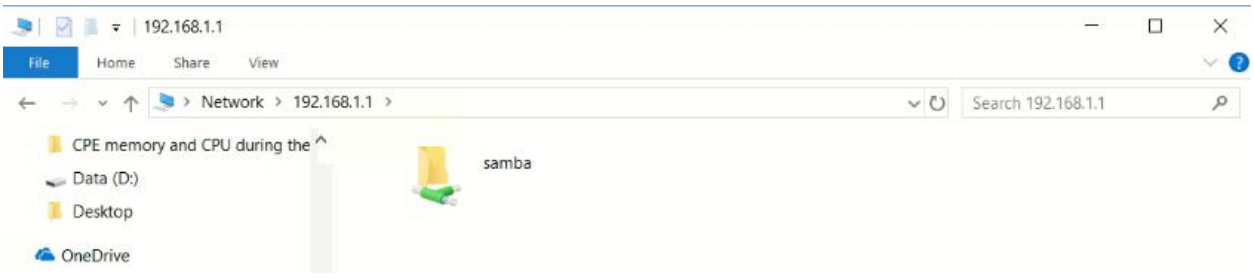

Image 20. Access form LAN PC (type \\192.168.1.1 in web browser)