

How to set up Wi-Fi for HUAWEI HG8247H

1. Open a Browser and type `http://192.168.1.1` at URL bar then press Enter, a Login page will appear as shown

Enter Account = admin / Password = password then press Login



2. WLAN > WLAN Basic Configuration

- Enable WLAN : Place a check mark
- SSID Name : name Wi-Fi as desired
- Broadcast SSID : Place a check mark (if want to hide, remove a check mark)
- Once completed, press **Apply**

HG8247H Logout

Status WAN LAN IPv6 **WLAN** Security Forward Rules Network Application System Tools

WLAN Basic Configuration | WLAN > WLAN Basic Configuration

On this page, you can set basic WLAN parameters(When the WLAN function is disabled, this page is blank).
 ⚠ Caution:
 1. Wireless network services may be interrupted temporarily after you modify wireless network parameters.
 2. It is recommended that you use the WPA2 or WPA/WPA2 authentication mode for security purposes.

Enable WLAN New Delete

SSID Index	SSID Name	SSID Status	Number of Associated Devices	Broadcast SSID	Security Configuration
<input type="checkbox"/> 1	True_Fiber_Home	Enabled	32	Enabled	Configured

SSID Configuration Details

SSID Name: True_Fiber_Home * (1-32 characters)

Enable SSID:

Number of Associated Devices: 32 * (1-32)

Broadcast SSID:

Enable WMM:

Authentication Mode: WPA/WPA2 PreSharedKey ▼

Encryption Mode: TKIP&AES ▼

WPA PreSharedKey: Hide *(8-63 ASCII characters or 64 hexadecimal characters)

WPA Group Key Regeneration Interval: 1800 *(600-86400s)

Enable WPS:

WPS Mode: PBC ▼

PBC: Start WPS

Apply Cancel

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2.1. Set up without the password

- Authentication Mode : select **Open**
- Encryption Mode : select **None**
- Once completed, press **Apply**

HUAWEI HG8247H Logout

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WLAN Basic Configuration | WLAN > WLAN Basic Configuration

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Enable WLAN New Delete

SSID Index	SSID Name	SSID Status	Number of Associated Devices	Broadcast SSID	Security Configuration
<input type="checkbox"/> 1	True_Fiber_Home	Enabled	32	Enabled	Configured

SSID Configuration Details

SSID Name: True_Fiber_Home * (1-32 characters)

Enable SSID:

Number of Associated Devices: 32 * (1-32)

Broadcast SSID:

Enable WMM:

Authentication Mode: Open ▼

Encryption Mode: None ▼

Apply Cancel

- Open
- Shared
- WPA PreSharedKey
- WPA2 PreSharedKey
- WPA/WPA2 PreSharedKey
- WPA Enterprise
- WPA2 Enterprise
- WPA/WPA2 Enterprise

2.2. Set up Encryption : WEP

- Authentication Mode : select **Shared**
- Encryption Mode : select **WEP**
- Encryption Key Strength : 64bit (ASCII : enter 5 letters /HEX : enter password 10 letters)
- Encryption Key Strength : 128bit (ASCII : enter 13 letters / HEX : enter password 26 letters)
- Current Key Index : select either one from 1-4
- Encryption Key : there are 4 lines that can set up different Encryption Key but can use only 1 Encryption Key per time only
- Once completed, press **Apply**

The screenshot shows the Huawei HG8247H web interface for WLAN configuration. The 'WLAN' tab is selected, and the 'WLAN Basic Configuration' page is active. A table lists the SSID 'True_Fiber_Home' with 32 associated devices and WEP encryption. The 'SSID Configuration Details' section shows the following settings:

- Enable WLAN:
- SSID Name: True_Fiber_Home (1-32 characters)
- Enable SSID:
- Number of Associated Devices: 32 (1-32)
- Broadcast SSID:
- Enable WMM:
- Authentication Mode: Shared
- Encryption Mode: WEP
- Encryption Key Length: 128 bits (Longer key length may affect the connection speed.)
- Current Key Index: 1
- Encryption Key 1-4: Four fields for keys, with a 'Hide' checkbox checked. A note states: 'hexadecimal characters, a 128-bit key contains 13 ASCII characters or 26 hexadecimal characters.'

2.3. Set up Encryption : WPA

- Authentication Mode : select **WPA PreSharedKey**
- Encryption Mode : default setting is TKIP but can change
- WPA PreSharedKey : set password 8-63 letters
- Hide : remove a check mark to show the password
- Once completed, press **Apply**

The screenshot shows the Huawei HG8247H web interface for WLAN configuration. The page title is "HG8247H" and the user is logged out. The navigation menu includes Status, WAN, LAN, IPv6, **WLAN**, Security, Forward Rules, Network Application, and System Tools. The left sidebar shows "WLAN Basic Configuration" selected, with other options like "WLAN Advanced Configuration", "Automatic WiFi Shutdown", and "WiFi Coverage Management".

The main content area is titled "WLAN > WLAN Basic Configuration". It contains a yellow warning box with the following text: "On this page, you can set basic WLAN parameters(When the WLAN function is disabled, this page is blank). Caution: 1. Wireless network services may be interrupted temporarily after you modify wireless network parameters. 2. It is recommended that you use the WPA2 or WPA/WPA2 authentication mode for security purposes." Below the warning box, there is a checkbox for "Enable WLAN" which is checked. There are "New" and "Delete" buttons. A table lists the WLAN configuration details:

SSID Index	SSID Name	SSID Status	Number of Associated Devices	Broadcast SSID	Security Configuration
<input type="checkbox"/> 1	True_Fiber_Home	Enabled	32	Enabled	Configured

Below the table, the "SSID Configuration Details" are shown. The "Authentication Mode" is set to "WPA PreSharedKey". The "Encryption Mode" dropdown menu is open, showing options: "Open Shared", "WPA PreSharedKey", "WPA2 PreSharedKey", "WPA/WPA2 PreSharedKey", "WPA Enterprise", "WPA2 Enterprise", and "WPA/WPA2 Enterprise". The "TKIP" option is highlighted. The "WPA PreSharedKey" field is masked with "*****" and has a "Hide" checkbox checked. The "WPA Group Key Regeneration Interval" is set to "1800". The "Enable WPS" checkbox is checked, and the "WPS Mode" is set to "PBC". There is a "Start WPS" button. At the bottom, there are "Apply" and "Cancel" buttons.

2.4. Set up Encryption : WPA2

- Authentication Mode : select **WPA PreSharedKey**
- Encryption Mode : default setting is AES but can change
- WPA PreSharedKey : set password 8-63 letters
- Hide : remove a check mark to show the password
- Once completed, press **Apply**

The screenshot shows the configuration page for the WLAN function on a Huawei HG8247H device. The page is titled "WLAN Basic Configuration" and includes a navigation menu with options like Status, WAN, LAN, IPv6, WLAN, Security, Forward Rules, Network Application, and System Tools. The main content area shows the "WLAN Basic Configuration" settings, including a table of SSID configurations and a detailed "SSID Configuration Details" section.

SSID Configuration Details:

- SSID Name: True_Fiber_Home
- Enable SSID:
- Number of Associated Devices: 32
- Broadcast SSID:
- Enable WMM:
- Authentication Mode: WPA2 PreSharedKey
- Encryption Mode: AES
- WPA PreSharedKey: [masked] Hide
- WPA Group Key Regeneration Interval: 1800
- Enable WPS:
- WPS Mode: PBC

A dropdown menu for the Encryption Mode is open, showing the following options: Open, Shared, WPA PreSharedKey, **WPA2 PreSharedKey**, WPA/WPA2 PreSharedKey, WPA Enterprise, WPA2 Enterprise, and WPA/WPA2 Enterprise.

2.5. Set up Encryption : WPA/WPA2

- Authentication Mode : select **WPA/WPA2 PreSharedKey**
- Encryption Mode : default setting is TKIP&AES but can change
- WPA PreSharedKey : set password 8-63 letters
- Hide : remove a check mark to show the password
- Once completed, press **Apply**

The screenshot shows the Huawei HG8247H web interface for WLAN configuration. The 'WLAN' tab is selected, and the 'WLAN Basic Configuration' page is displayed. A table lists the SSID configuration for 'True_Fiber_Home'. The 'Authentication Mode' is set to 'WPA/WPA2 PreSharedKey' and the 'Encryption Mode' is set to 'TKIP&AES'. A dropdown menu is open for the 'Encryption Mode', showing options: AES, TKIP, and TKIP&AES (which is highlighted). Another dropdown menu is open for the 'Authentication Mode', showing options: Open Shared, WPA PreSharedKey, WPA2 PreSharedKey, WPA/WPA2 PreSharedKey (highlighted), WPA Enterprise, WPA2 Enterprise, and WPA/WPA2 Enterprise.

WLAN Basic Configuration

WLAN > WLAN Basic Configuration

On this page, you can set basic WLAN parameters(When the WLAN function is disabled, this page is blank).
 ⚠ Caution:
 1. Wireless network services may be interrupted temporarily after you modify wireless network parameters.
 2. It is recommended that you use the WPA2 or WPA/WPA2 authentication mode for security purposes.

Enable WLAN

New Delete

SSID Index	SSID Name	SSID Status	Number of Associated Devices	Broadcast SSID	Security Configuration
<input type="checkbox"/> 1	True_Fiber_Home	Enabled	32	Enabled	Configured

SSID Configuration Details

SSID Name: True_Fiber_Home * (1-32 characters)

Enable SSID:

Number of Associated Devices: 32 * (1-32)

Broadcast SSID:

Enable WMM:

Authentication Mode: WPA/WPA2 PreSharedKey

Encryption Mode: TKIP&AES

WPA PreSharedKey: Hide *(8-63 ASCII characters)

WPA Group Key Regeneration Interval: 1800 *(600-86400s)

Enable WPS:

WPS Mode: PBC

PBC: Start WPS

Apply Cancel

Open Shared WPA PreSharedKey WPA2 PreSharedKey WPA/WPA2 PreSharedKey WPA Enterprise WPA2 Enterprise WPA/WPA2 Enterprise

2.6. Set up Encryption : WPS

- WPS should be used with Encryption WPA / WPA2 /WPA&WPA2 only
- Enable : tick a check mark to enable
- WPS Mode : 3 options are
 - PBC : press WPS button at Router
 - PIN : 8-digit PIN from device supporting WPS PIN to enter and press Apply
 - AP-PIN : enter password of AP-PIN in device supporting WPS PIN
- Regenerate PIN : for changing to new PIN
- Reset PIN : for changing the PIN to default PIN

The screenshot shows the configuration page for the Huawei HG8247H router, specifically the WLAN Basic Configuration section. The interface includes a navigation menu at the top with options like Status, WAN, LAN, IPv6, WLAN, Security, Forward Rules, Network Application, and System Tools. The main content area is titled 'WLAN > WLAN Basic Configuration' and contains a table of SSID configurations. The first SSID, 'True_Fiber_Home', is selected, and its configuration details are shown below. The 'WPS Mode' is set to 'PBC', and the 'WPS Mode' dropdown menu is open, showing options for PBC, PIN, and AP-PIN. Below this, there are three separate panels for configuring WPS Mode: PIN, AP-PIN, and Regenerate/Reset PIN options.

WLAN Basic Configuration

WLAN > WLAN Basic Configuration

On this page, you can set basic WLAN parameters(When the WLAN function is disabled, this page is blank).
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 2. It is recommended that you use the WPA2 or WPA/WPA2 authentication mode for security purposes.

Enable WLAN

SSID Index	SSID Name	SSID Status	Number of Associated Devices	Broadcast SSID	Security Configuration
<input type="checkbox"/> 1	True_Fiber_Home	Enabled	32	Enabled	Configured

SSID Configuration Details

SSID Name: True_Fiber_Home * (1-32 characters)
 Enable SSID:
 Number of Associated Devices: 32 * (1-32)
 Broadcast SSID:
 Enable WMM:
 Authentication Mode: WPA/WPA2 PreSharedKey
 Encryption Mode: TKIP&AES
 WPA PreSharedKey: Hide *(8-63 ASCII characters or 64 hexadecimal characters)
 WPA Group Key Regeneration Interval: 1800 *(600-86400s)
 Enable WPS:
 WPS Mode: PBC
 PBC: Start WPS

Apply Cancel

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WPS Mode: PIN
 PIN: 21835124
 Apply Cancel

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WPS Mode: AP-PIN
 AP-PIN: 40931852 Regenerate PIN Reset PIN
 Apply Cancel

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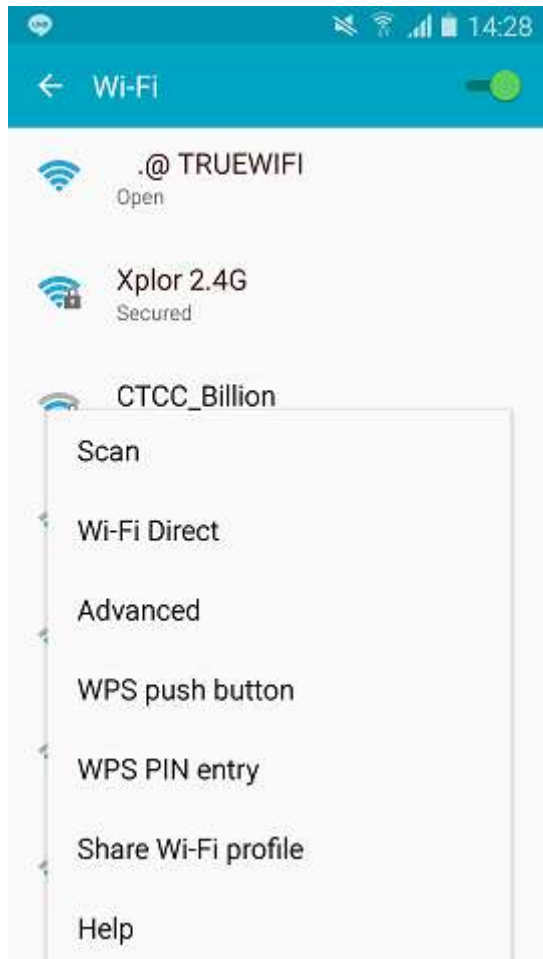
2.7. Example is to use WPS Mode PBC with Smart Phone (except iPhone that doesn't support WPS)

2.7.1. Press and hold **WPS button** on the right for 5 seconds, WPS LED will be solid on



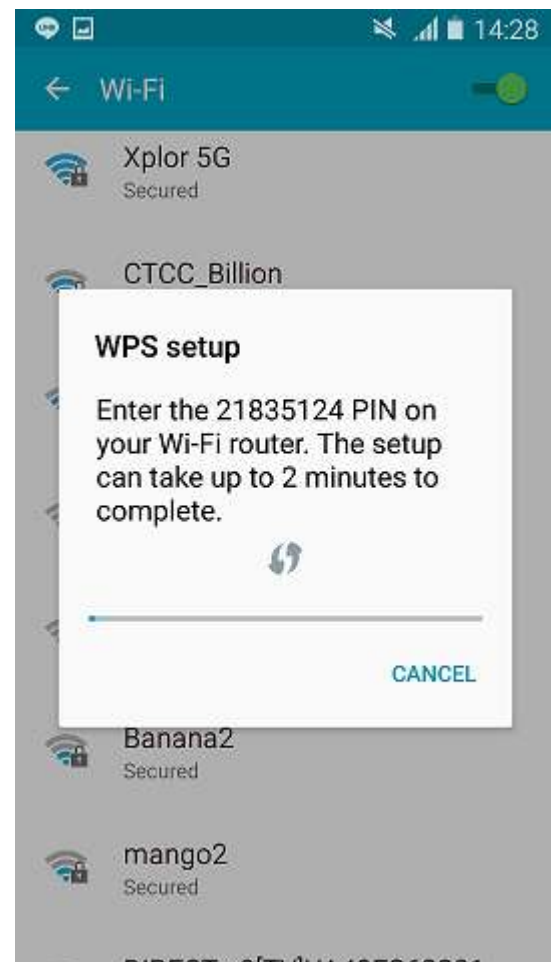
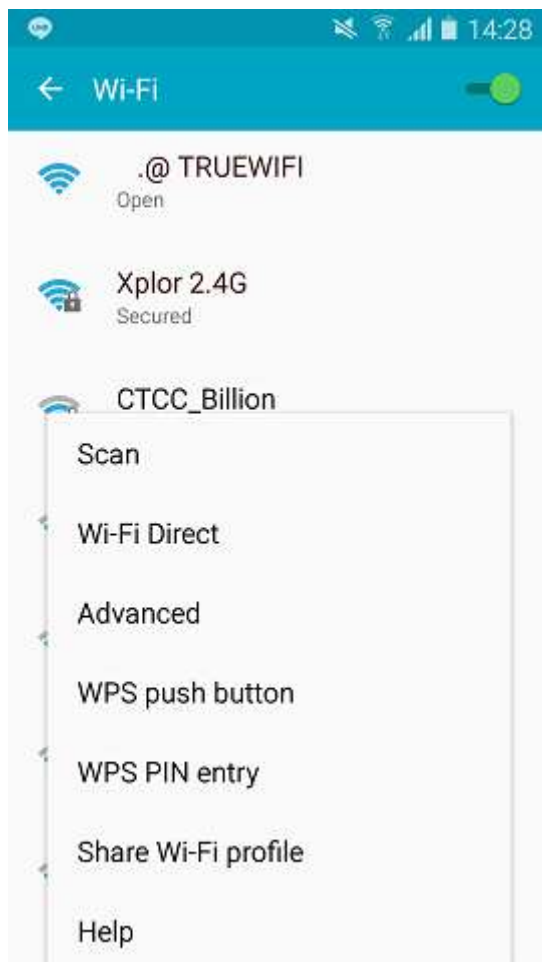
2.7.2. At Smart Phone, go to **Settings > Wi-Fi**

- Press Menu button > select **WPS push button**
- Device will automatically connect Wi-Fi



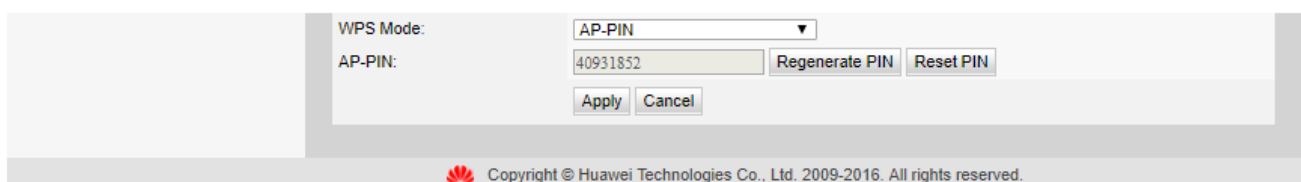
1.1. Example is to use WPS Mode PIN with Smart Phone (except iPhone that doesn't support WPS)

- At Smart Phone, go to **Settings > Wi-Fi**
- Press Menu button > menu popup for selection, select **WPS PIN entry**
- PIN will show on Smart Phone
- Enter PIN from Smart Phone in PIN
- Press **Apply**
- Device will automatically connect to Wi-Fi



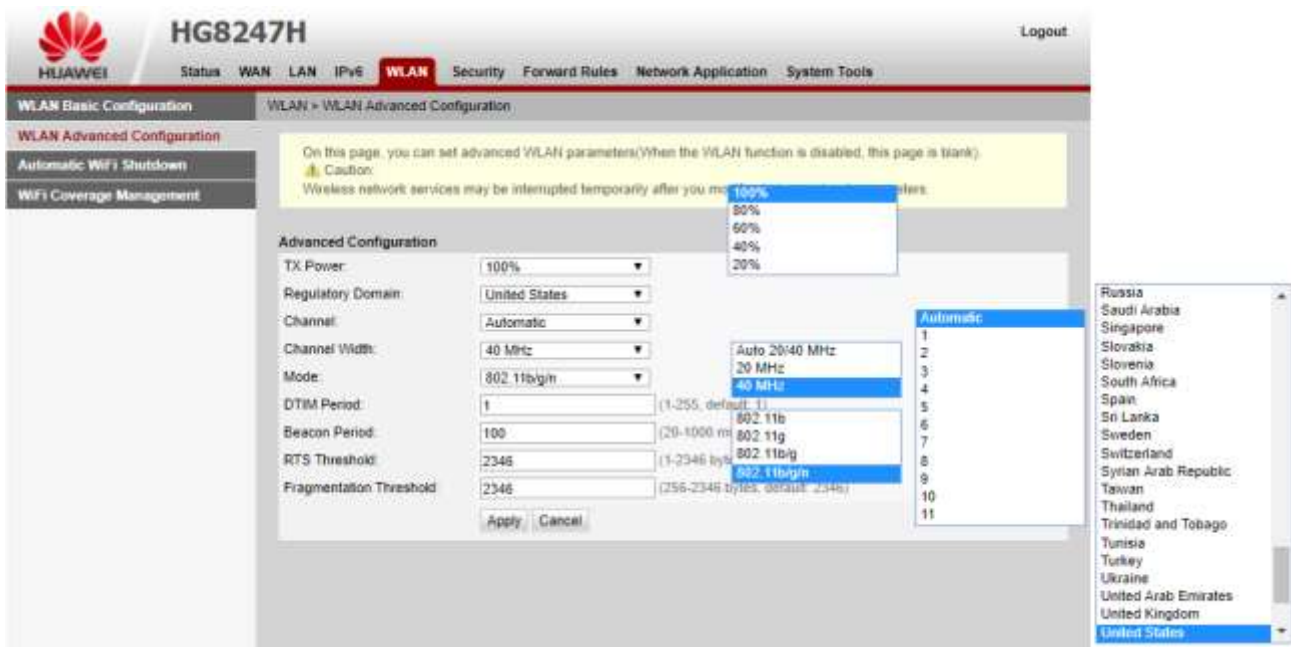
1.2. Example is to use WPS Mode AP-PIN with Windows 10

- Click at Wi-Fi sign at bottom right
- Choose Wi-Fi network and press **Connect**
- Enter 8-digit PIN from the Router label
- Once finished, press **Next**
- Device will automatically connect to Wi-Fi



2. Set up WLAN Advanced Configuration

- **TX Power** : if choose less value, network signal will expand not far
- **Regulatory Domain** : choose preferred country and this may affect channel (default is United States, Channel is from 1-11 that it is basic for most device)
- **Channel** : choose preferred channel (if choose Automatic and the router is turned off and on, it'll choose the best channel in that area)
- **Channel Width** : starting at 20MHz , if choose 40MHz, Router will combine 2 channels together e.g. 6+11 and make wider channel (depending on connected device whether it supports the channel combination)
- **Mode** : choose preferred Mode (default setting is allowed to all Modes)
- Once completed, press **Apply**



3. If want to create SSID more than 1 SSID can be done as follows:

3.1. Click NEW and set up

- SSID Name: name Wi-Fi
- Enable SSID : tick a check mark
- Once completed, press **Apply**

The screenshot shows the Huawei HG8245 web interface for WLAN configuration. The 'WLAN' tab is selected. A 'New' button is highlighted with a red box and an arrow. Below it is a table with one row of configuration data. Underneath is the 'SSID Configuration in Detail' section with several fields and checkboxes, some of which are also highlighted with red arrows.

WLAN Configuration

WLAN > WLAN Configuration

On this page, you can set the WLAN parameters, including the WLAN switch, SSID configuration and channel selection.

Enable WLAN

Basic Configuration

SSID Index	SSID Name	SSID State	Associated Device Number	Broadcast SSID	Security Configuration
1	WirelessNet	Enable	32	Enable	Configured

SSID Configuration in Detail

SSID Name: Navigator_GPON *

Enable SSID:

Associated Device Number: 32 *

Broadcast SSID:

WMM Enable:

Apply Cancel

3.2. Can choose to set up in each SSID

On this page, you can set the WLAN parameters, including the WLAN switch, SSID configuration and channel selection.

Enable WLAN

Basic Configuration New Delete

SSID Index	SSID Name	SSID State	Associated Device Number	Broadcast SSID	Security Configuration
<input type="checkbox"/> 1	WirelessNet	Enable	32	Enable	Configured
<input type="checkbox"/> 2	Navigator_GPON	Enable	32	Enable	Unconfigured

SSID Configuration in Detail

SSID Name: *

Enable SSID:

Associated Device Number: *

Broadcast SSID:

WMM Enable:

Authentication Mode:

Encryption Mode:

WPA PreSharedKey: *(8-63 ASCII characters or 64 hexadecimal digits)

WPA Group Rekey Interval: *(600-86400)

3.3. If test connecting to WiFi, Access Point will be shown as previously set

Currently connected to:

- WirelessNet**
Internet access

Wireless Network Connection **1**

- WirelessNet** **Connected**
- true_homewifi_74
- true_homewifi_0A7
- .@ truemoveH
- true_homewifi_308
- Technical_Analysis
- Navigator_GPON**
- .@ TRUEWIFI

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