

# AP Configuration Guide

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# 1. Introduction

## 1.1. Purpose

This manual is used to guide users to quickly configure AP through WEB.

## 2. Hardware Connection

- Commercial AP/Gateway: Connect the LAN of the commercial AP/Gateway to the network port of the computer through the switch.

## 3. WEB Login/Logout

### 1.1. Overview

WEB network management is provided for users to manage and maintain the device through the WEB. As shown below.



WEB operating environment

### 3.2 Browser

Current supported browser: IE7.0 and above

Mozilla Firefox 22.0 and above

Google Chrome 27.0 and above

### 3.3 WEB Login

- The web supports two modes: Chinese and English, which can be chosen on the login interface. The page is divided into general users and advanced users. The general user logs in through admin/admin, and the advanced user logs in through root/bdinside. The multiple VLANs, multiple wan ports, random configuration of wan ports, and complex firewall configurations are not supported in the general user mode; the multiple switch configurations, multiple bridge modes, multiple wan port configurations, and complex firewall rules are supported in the advanced user mode.

- After the AP is powered on, the PC is connected to the default SSID of the AP: BDCOM\_xxxxxx (xxxxxx is the last 6 digits of the AP mac address), and the PC is configured with a static ip 192.168.1.0/24 network segment address;

- Start the browser, enter < http://192.168.1.1> in the address bar and press <Enter>, the login interface is as shown in the figure below:



WEB login interface

**i** Attention

It must be ensured that the network between the management PC and the commercial AP can be connected to log in to the WEB page of the commercial AP/gateway.

### 3.4 Operation Page Description

After successful login, enter the WEB home page;

### 3.5 Logout WEB Network Management

Click [Exit] in the WEB page to log out the WEB network management.

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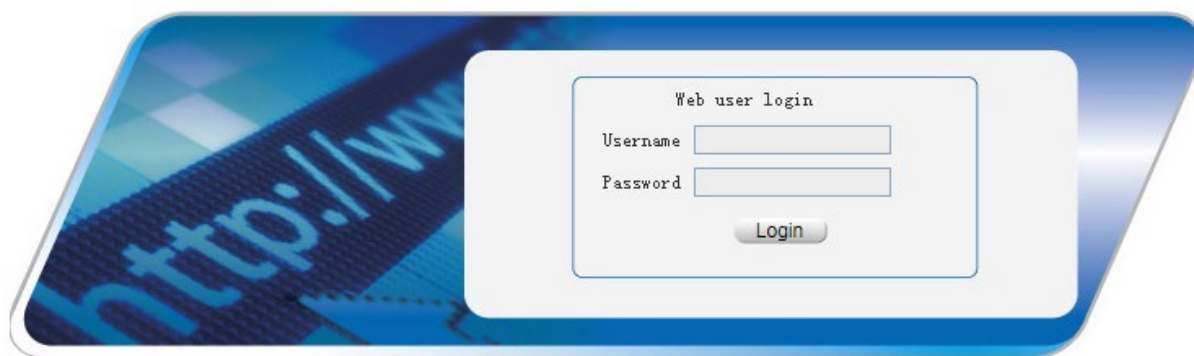
## 4. Quick Configuration

### 4.1. Step 1: Open the browser

Open a browser in your PC.

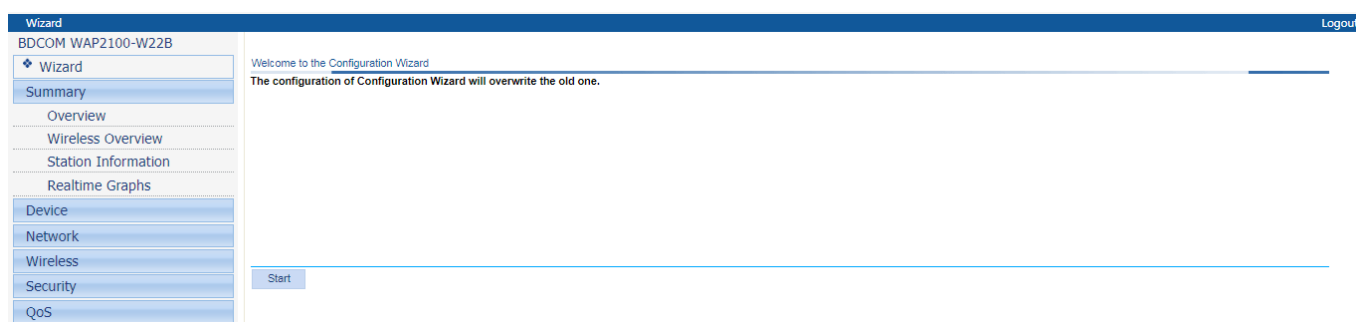
### 4.2 Step 2: Log in to the AP

AP login: Enter 192.168.1.1 in the address bar of the browser, the username and password are <admin>/<admin> in the general user mode, as shown in the following figure:



### 4.3 Step 3: Enter the configuration wizard

After logging in, click [Wizard] to enter the configuration wizard;



### Step 4: WAN Configuration

Configure device WAN parameters. The WAN access protocol supports DHCP, Static Address and PPPoE, in which DHCP is the default protocol.

1/3:WAN Setting

Interface Mode  Routing  Bridge

Protocol  DHCP  Static Address  PPPoE

Hostname to send when requesting DHCP

Vendor Class to send when requesting DHCP

[NextStep](#) The asterisk field is required

The IP address, net-mask, and gateway are needed in the static address protocol; while the user name and password are needed in the PPPOE protocol.

1/4:WAN Setting

Protocol  DHCP  Static Address  PPPoE

IPv4 Address  \*

IPv4 Netmask  \*

IPv4 Gateway

IPv4 Broadcast

[NextStep](#) The asterisk field is required

After completing the configuration, click [NextStep];

## 4.5 Step 5:Wireless Configuration

As shown in the figure below, the user can modify the SSID name, channel, radio power, encryption (no encryption by default) and IP address. Here, the web page is logged in through a wifi connection, so the wireless network status is Enable.

2/3:Wireless Setting

WIFI-2.4G Configuration

SSID  \*

Wireless network Status

Channel

Radio Power

Encryption  \*

WIFI-5G Configuration

SSID  \*

Wireless network Status

Channel

Radio Power

Encryption  \*

[PrevStep](#) [NextStep](#) The asterisk field is required

After completing the WIFI configuration, click [NextStep];

## 4.6 Step 7: Admin Settings

3/3:Admin settings

Please modify the user's password

Password  (8-12 char,contain upper and lowercase letters and numbers)

Confirmation

[PrevStep](#) [Finish](#)

The asterisk field is required



After setting the management password for accessing the AP, click [Finish]

## 5. Overview

### 5.1 Device Overview

The overview includes system status, interface information, DHCP leases and basic INFO;

System Status

CPU Usage		3%
Memory Usage		41%

Interface Information

Name	IP Address	Netmask	Status
lan	192.168.1.1	255.255.255.0	up
wan	-	-	down

Interface Details [Interfaces](#)

DHCP Leases

Hostname	IPv4-Address	MAC-Address	Leasetime Remaining
HUAWEI_P30-d1533d4dc95a7c	192.168.1.247	22:b2:91:61:12:6f	11h54m3s

Total 1 items , per page 10 items | page: 1 of 1, 1~1 items | [First](#) [Previous](#) [Next](#) [Last](#)  [Goto](#)

Refresh Cycle  [Refresh](#)

### 5.2 Wireless Service

The following shows all wireless services, encryption method and wireless status:

Wireless Overview

SSID	Encryption	Service Status
BDCOM_DCB4	No Encryption	Enable
BDCOM_DCB4_5G	No Encryption	Enable

## 6. Device

### 6.1 Time Setting

Configure NTP Server, time and Time zone:

Time Setting

This page set the network time protocol features.

Current system time 2018-08-30 17:55

Set system time

NTP server1   
NTP server2

年/月/日 --:--

Set time zone

zone

Submit

Item	Description
Current system time	read only, current system time
NTP Server	Configure NTP Server
Time	Configure via time controls
Time zone	Support all time zones

### 6.2 Configuration Management

Configure the config backup, config restore and factory config restore .

Backup configuration file:

Config Backup Config Restore Factory Config Restore

Backup configuration file

Backup to the 'tar.gz' end of the configuration file Backup

Restore configuration file:



Config Backup   Config Restore   **Factory Config Restore**

---

Restore configuration file

未选择任何文件      (To '.tar.gz' files that end)

Note: the restored configuration file take effect after the device the next time you start.

Factory configuration restore:

Config Backup   Config Restore   **Factory Config Restore**

Note: to delete the current configuration file and restore the device to factory configuration and reboot the device.

## 7. Network

### 7.1 Diagnostic Tool

Network diagnostics, Ping/Trace Route.

Ping:

IPv4 Ping   Trace Route

Destination IP address or host name:  \*

The asterisk field is required

Item	Description
Destination IP address or host name	IP address or host name

Trace Route:

IPv4 Ping    Trace Route

Destination IP address or host name:  \*

Information:

The asterisk field is required

## 7.2 IPv4 Route

After configuring the static route, and restart the routing process to learn the configured static route in the routing table.

Routing Table    Static

Static Route Configuration

Route ID  \*

Destination  \*

Subnet Mask

Gateway

Output Interface

The asterisk field is required

<input type="checkbox"/>	Route ID	Destination	Subnet Mask	Gateway	Output Interface	Operation
Total 0 items , per page 30 items   page: 1 of 0, 1~0 items   <a href="#">First</a> <a href="#">Previous</a> <a href="#">Next</a> <a href="#">Last</a> <input type="text" value="1"/> <input type="button" value="Goto"/>						

## 8. Wireless Service

### 8.1 Access Service

Configure wireless-related items:

Wireless Service

<input type="checkbox"/>	SSID	Radio	Encryption	Service Status	Operation
<input type="checkbox"/>	BDCOM_DCB4	2.4G	No Encryption	Enable	
<input type="checkbox"/>	BDCOM_DCB4_5G	5G	No Encryption	Enable	

Modify the wireless configuration, which is slightly different according to different platforms. Please refer to the related documents in wiki:

Wireless Service

Basic Configuration

SSID: BDCOM\_DCB4 \*

Radio: 2.4G \*

Channel: Auto \*

Mode: Access Point \*

Network:  lan  wan  mng  lan1

Max Sta: 128 (1-128)

Hide SSID:

WMM Mode:

Isolate Mode:

HT Mode: 20MHz \*

Radio Power: \*

Short GI:

Security Configuration

Encryption: No Encryption \*

The asterisk field is required

Confirm Return

Item	Description
<b>SSID Name</b>	Wireless Name
<b>Radio</b>	2.4G/5G, dynamically displayed according to AP type
<b>Channel</b>	Configure the channel. The page will display dynamically according to the country code.
<b>Mode</b>	Access mode
<b>Network</b>	Configure network
<b>Hide SSID</b>	Hide SSID switch
<b>HT Mode</b>	Bandwidth, note that the value of 5G bandwidth is controlled by the back-end code, divided into 80MHz or 40MHz 80MHz. Different platforms have different configurations. For details, please refer to the wireless configuration documentation of the corresponding platform.
<b>Radio Power</b>	Configure the power, which is dynamically displayed on the page according to the country code and model, with different units (dBm, mv, %)
<b>Encryption</b>	Encryption method, different encryption methods with different algorithm configurations
<b>Password</b>	The length of the password depending on the encryption and algorithm.

## 8.2 Wireless Scan

### WDS Bridge Configuration

Wireless Scan

Radio	Operation
2.4G	Search
5G	Search

Search surrounding WiFi:

State	SSID	Channel	Mode	BSSID	Encryption	Join
0%	RTL8186-default	10	Master	98:45:62:E2:2E:4C	None	<a href="#">Join Network</a>
0%	TP-LINK_66BF	6	Master	60:3A:7C:C4:66:BF	None	<a href="#">Join Network</a>
0%	113-IES	9	Master	98:45:62:E2:16:1C	mixed WPA/WPA2 PSK (TKIP)	<a href="#">Join Network</a>
0%	114-PON	10	Master	98:45:62:E2:07:AC	mixed WPA/WPA2 PSK (TKIP)	<a href="#">Join Network</a>
0%	HGU-4940	10	Master	00:55:B1:0B:49:40	mixed WPA/WPA2 PSK (TKIP)	<a href="#">Join Network</a>
0%	88888888	10	Master	00:55:B1:30:31:D2	mixed WPA/WPA2 PSK (TKIP)	<a href="#">Join Network</a>
19%		11	Master	62:41:20:91:F2:0D	mixed WPA/WPA2 PSK (CCMP)	<a href="#">Join Network</a>
32%	我是大帅哥666	11	Master	E6:1B:81:CA:14:6B	WPA2 PSK (CCMP)	<a href="#">Join Network</a>
42%	Meeting	6	Master	F4:63:CD:AA:BD:8D	mixed WPA/WPA2 PSK (CCMP)	<a href="#">Join Network</a>
50%		11	Master	94:3B:B0:DE:4D:D6	None	<a href="#">Join Network</a>
50%	LYG-SH	11	Master	94:3B:B0:DE:4D:D4	mixed WPA/WPA2 PSK (CCMP)	<a href="#">Join Network</a>
53%	default_l22c	5	Master	98:45:62:B4:9A:3A	None	<a href="#">Join Network</a>
56%	default_T22E_6	5	Master	98:45:62:B4:F3:2B	None	<a href="#">Join Network</a>
70%	PUYI	11	Master	B0:95:8E:58:98:DF	mixed WPA/WPA2 PSK (TKIP)	<a href="#">Join Network</a>
70%	TOTO	8	Master	86:12:B3:BC:BB:77	WPA2 PSK (CCMP)	<a href="#">Join Network</a>
73%	ssid1	9	Master	9A:FA:F7:00:12:56	None	<a href="#">Join Network</a>
73%	HGU-POL	2	Master	98:45:62:E2:24:EC	mixed WPA/WPA2 PSK (TKIP)	<a href="#">Join Network</a>

Select the wireless that needs to be bridged and join the network (this page is only suitable for Qualcomm platform, MTK does not have this configuration):

Reset Wireless Network  Y  N

Name of the New Network

Create / Assign Firewall-zone  lan  wan

The asterisk field is required

[Submit](#) [Return](#)

Item	Description
<b>Reset Wireless Network</b>	Yes: modify the first SSID of 2.4G or 5G; No: add a 2.4G or 5G SSID
<b>WPA Password</b>	Configure according to the wireless that needs to be bridged. If it is not encrypted, there is no such configuration item.
<b>Name of the New Network</b>	Name of the New Interface

After submitting, jump to the wireless modification configuration page:

Wireless Service

Basic Configuration

SSID	<input type="text" value="BDCOM_DCB4"/>	*
Radio	<input type="text" value="2.4G"/>	*
Channel	<input type="text" value="Auto"/>	*
Mode	<input type="text" value="Access Point"/>	*
Network	<input checked="" type="checkbox"/> lan <input type="checkbox"/> wan <input type="checkbox"/> mng <input type="checkbox"/> lan1	
Max Sta	<input type="text" value="128"/> (1-128)	
Hide SSID	<input type="checkbox"/>	
WMM Mode	<input checked="" type="checkbox"/>	
Isolate Mode	<input type="checkbox"/>	
HT Mode	<input type="text" value="20MHz"/>	*
Radio Power	<input type="text"/>	*
Short GI	<input type="checkbox"/>	

Security Configuration

Encryption	<input type="text" value="No Encryption"/>	*
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The asterisk field is required

SSID, Radio, Channel, Mode, BSSID, Encryption and Password will load automatically.