

Peplink WLAN Controller

Centralized Access Point Management

Quick Start Guide



Manage Pepwave AP One with Peplink Balance Now!

The Peplink Balance WLAN Controller now supports Pepwave AP One access points. Built on top of the popular Peplink Balance multi-WAN bonding router, the WLAN Controller feature allows you to manage and configure up to 500 access points easily, with a single, unified interface. Simplify controlling your Wi-Fi network, plus enjoy increased bandwidth and better Internet reliability, using the Peplink Balance WLAN Controller.

Requirements

- Pepwave AP One series access point
- Peplink Balance 380 or above
- WLAN Controller full edition license

Different Peplink Balance models can support up to a maximum number of AP. For details, please visit <http://www.peplink.com/balance/tech-spec/>

A WLAN Controller full edition license is required to manage additional APs. Please contact your authorized reseller or the Peplink sales team for more information and pricing details.

Getting Started

- 1 Select **Network** from the top menu. Choose **AP Management** from the left menu, and then select the check box to enable the feature.
- 2 Click **Save**, and then click **Apply Changes**.
- 3 AP One devices in the network will be automatically discovered. The number of APs detected will be shown on the **Dashboard** and **Access Point** section of **Status**.
- 4 To manage access points located in a remote network, enable **Manage Remote AP**.
- 5 You can set up a list of recognized access points with **Access Point to be Managed**.

Pepwave AP Management



Access Point Management		
Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Manage Remote AP	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Access Point to be Managed	<input checked="" type="radio"/> Any	<input type="radio"/> Access points listed below:

Save

WLAN Information		Control Panel	Status
Access Point:	4 (Online: 4)		
Connected Clients:	14		

A Creating Wireless Networks (SSID)

- 1 Choose **Wireless Networks** from the left menu. Click the **New Network** button displayed on the bottom of the page.
- 2 In the **Wireless Network** dialog box, enter the **Network Name (SSID)** used to identify the Wi-Fi network.
- 3 Under **Wireless Security Settings**, select **WPA/WPA2 - Personal** for home or small business use. Enter an authentication password of at least 8 characters in the **Shared Key** field. If you are managing the network of a larger company, you may consider using **WPA/WPA2 - Enterprise**, which allows you to use a separate **RADIUS** server to handle the wireless network's authentication.
- 4 To further customize network permissions, you can also change **Guest Protect**, **Bandwidth Management**, and **Firewall Settings**.
- 5 To show a splash screen for your Wi-Fi service, which is useful for Wi-Fi service offered to guests in restaurant, hospitality, other settings, enable **Captive Portal**.
- 6 Click **OK** at the bottom of the dialog box, and then click **Apply Changes** to save the wireless network.
- 7 Repeat the above steps to add more wireless networks and/or specify additional name and network permissions for various user groups.

Wireless Network			
Wireless Network Settings			
Network Name (SSID)			
VLAN ID	0	(0: Untagged)	
Broadcast SSID	<input checked="" type="checkbox"/>		
Multicast Filter	<input type="checkbox"/>		
Multicast Rate	(for b/g mode) 1M		
	(for n mode) MCS0		
Layer 2 Communication	<input checked="" type="checkbox"/>		
Wireless Security Settings			
Security Policy	WPA/WPA2 - Personal		
Encryption	TKIP/AES/CCMP		
Shared Key			
	<input checked="" type="checkbox"/> Hide Characters		
Access Control			
Restricted Mode	None		
Guest Protect			
Block All Private IP	<input type="checkbox"/>		
Custom Subnet	Network	Subnet Mask	
		255.255.255.0 (/24)	
Block Exception	Network	Subnet Mask	
		255.255.255.0 (/24)	
Bandwidth Management			
Upstream Limit	0	kbps (0: Unlimited)	
Downstream Limit	0	kbps (0: Unlimited)	
Client Upstream Limit	0	kbps (0: Unlimited)	
Client Downstream Limit	0	kbps (0: Unlimited)	
Max number of Clients	0	(0: Unlimited)	
Firewall Settings			
Firewall Mode	Disable		
Captive Portal			
Enable	<input type="checkbox"/>		
OK Cancel			

B Creating AP Profiles

- 1 Choose **AP Profiles** from the left menu. Click the **New AP Profile** button displayed on the bottom of the page.
- 2 In the **AP Profile** dialog box, enter a name for the device configuration profile.
- 3 Select up to four wireless networks to include in the AP profile.
- 4 Optimize your device's radio performance by adjusting the options in **AP Advanced Settings**. For example, you can select a different 2.4 GHz Wi-Fi radio channel in order to ensure the best signal strength and eliminate potential channel conflicts.
- 5 Change your AP One's device security settings, such as passwords, under **Web Administration Settings**.
- 6 Click **Save** at the bottom of the dialog box, and then click **Apply Changes** to store the AP profile.
- 7 Repeat the above steps to create additional AP profiles for other usage scenarios.

AP Profile

AP Profile Name

Wireless Networks

- Account
- Production
- Engineers
- Admin
- HR
- Marketing

Wi-Fi AP Advanced Settings

Operating Country: United States

Preferred Frequency: 2.4 GHz (selected) 5 GHz

2.4 GHz Protocol: 802.11bgn

2.4 GHz Channel Bonding: 20 MHz

2.4 GHz Channel: 1 (2.412 GHz)

Output Power: Max

Management VLAN ID: 0 (0: Untagged)

802.1X Version: V1 (selected) V2

Beacon Rate: 1Mbps (Default)

Beacon Interval: 100ms (Default)

DTIM: 1 (Default)

RTS Threshold: 0 (Default)

Slot Time: 9 μs (Default)

ACK Timeout: 48 μs (Default)

Frame Aggregation:

Frame Length: 50000 (Default)

Web Administration Settings

Enable:

Web Access Protocol: HTTP (selected) HTTPS

Management Port: 443

HTTP to HTTPS Redirection:

Admin Username: admin

Admin Password: dae123e8e36fg

C Applying AP Profiles

- 1 Navigate to the **Dashboard** page. Under **WLAN Information**, click **Control Panel**.
- 2 Select the check box for the AP One device you wish to configure.
- 3 Select **AP Profile** from the drop-down menu located in the lower right corner.
- 4 In the **AP Profile dialog box**, select a previously created AP profile. Click **OK**.
- 5 The selected AP profile will be sent to your AP One devices automatically.

Access Point Control Panel

Devices Firmware Packs

Name	IP Address	Firmware	AP Profile	Ch	Ch
<input checked="" type="checkbox"/> AP_One_1	80.9.2.8	3.1.3	Main_Office	2	11
<input type="checkbox"/> AP_One_2	80.9.2.15	3.1.3	Main_Office	2	11
<input type="checkbox"/> AP_One_3	80.9.2.40	3.0.14	Main_Office	5	11
<input type="checkbox"/> AP_One_4	80.9.2.2	3.1.3	Main_Office_11a	5	11

Actions...

D Creating Captive Portals

A captive portal is a great opportunity to build your brand while providing Wi-Fi service to hotel guests, coffee shop patrons, students, and other users. You can create a customized portal start page using one of two captive portal modes.

- 1 Navigate to the **Dashboard** page. Under **WLAN Information**, click **Control Panel**.
- 2 In the **Access Point Control Panel** dialog box, click **Captive Portal Settings**, located on the lower left.
- 3 Click the **General** tab and choose a **Captive Portal Mode** -

Open Access Mode -- No user name or password will be required on the portal page. To limit the amount of time a guest can use the network, enter the allowed time in **Free Access Quota**. Click **Save** to store your changes.

Guest Account Mode -- The portal page will be displayed with a login box, and a user name and password will be required. After selecting **Guest account mode**, click **Save**. Click **Guest Accounts** to create accounts.

- 4 Click the **Portal Page Customization** tab.
- 5 To upload an image for the portal page, first click **Choose File**. Select the desired image from your system and click **Upload**.
- 6 Customize your portal page with a **Message** and **Terms & Conditions**.
- 7 Specify where the customer will be redirected after successful authentication with **Custom Landing Page**.
- 8 Click **Preview** to review your design. Click **Publish** to save your portal page and make it available to guests.

