

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"/>
Manage Remote AP	<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, and 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 ID0 (0: Untagged)

Broadcast SSID☒

Multicast Filter☐

Multicast Rate(for b/g mode) 1M (for n mode) MCS0

Layer 2 Communication☒

Wireless Security Settings

Security PolicyWPA/WPA2 - Personal

EncryptionTKIP/AES/CCMP

Shared Key

☒ Hide Characters

Access Control

Restricted ModeNone

Guest Protect

Block All Private IP☐

Custom Subnet

NetworkSubnet Mask

255.255.255.0 (/24)

Block Exception

NetworkSubnet Mask

255.255.255.0 (/24)

Bandwidth Management

Upstream Limit0 kbps (0: Unlimited)

Downstream Limit0 kbps (0: Unlimited)

Client Upstream Limit0 kbps (0: Unlimited)

Client Downstream Limit0 kbps (0: Unlimited)

Max number of Clients0 (0: Unlimited)

Firewall Settings

Firewall ModeDisable

Captive Portal

Enable☐

OKCancel

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.

The screenshot shows the 'AP Profile' dialog box with the following sections:

- AP Profile Name:** A text field for naming the profile.
- Wireless Networks:** A list of networks with checkboxes for selection. The 'Production' checkbox is checked.
- Wi-Fi AP Advanced Settings:**
 - Operating Country: United States
 - Preferred Frequency: 2.4 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
 - Beacon Rate: 1Mbps
 - Beacon Interval: 100ms
 - DTIM: 1
 - RTS Threshold: 0
 - Slot Time: 9
 - ACK Timeout: 48
 - Frame Aggregation: checked
 - Frame Length: 50000
- Web Administration Settings:**
 - Enable: checked
 - Web Access Protocol: HTTP
 - Management Port: 443
 - HTTP to HTTPS Redirection: checked
 - Admin Username: admin
 - Admin Password: dae123e8e36fg (with a Generate button)

At the bottom are 'Save' and 'Cancel' buttons.

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.

The screenshot shows the 'Access Point Control Panel' with a 'Devices' tab selected. It contains a table with the following data:

Name	IP Address	Firmware	AP Profile	Ch	Ch
AP One 1	80.9.2.8	3.1.3	Main_Office	2	11
AP One 2	80.9.2.15	3.1.3	Main_Office	2	11
AP One 3	80.9.2.40	3.0.14	Main_Office	5	11
AP One 4	80.9.2.2	3.1.3	Main_Office_11a	5	11

Below the table is an 'Actions...' dropdown menu. At the bottom right is a 'Close' button.

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.

