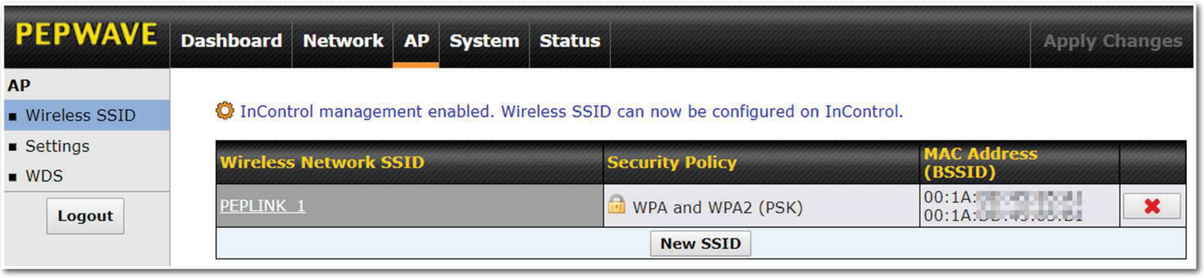
# 8 AP

Use the controls on the **AP** tab to set the wireless SSID and AP settings, as well as wireless distribution system (WDS) settings.

## 8.1 Wireless SSID



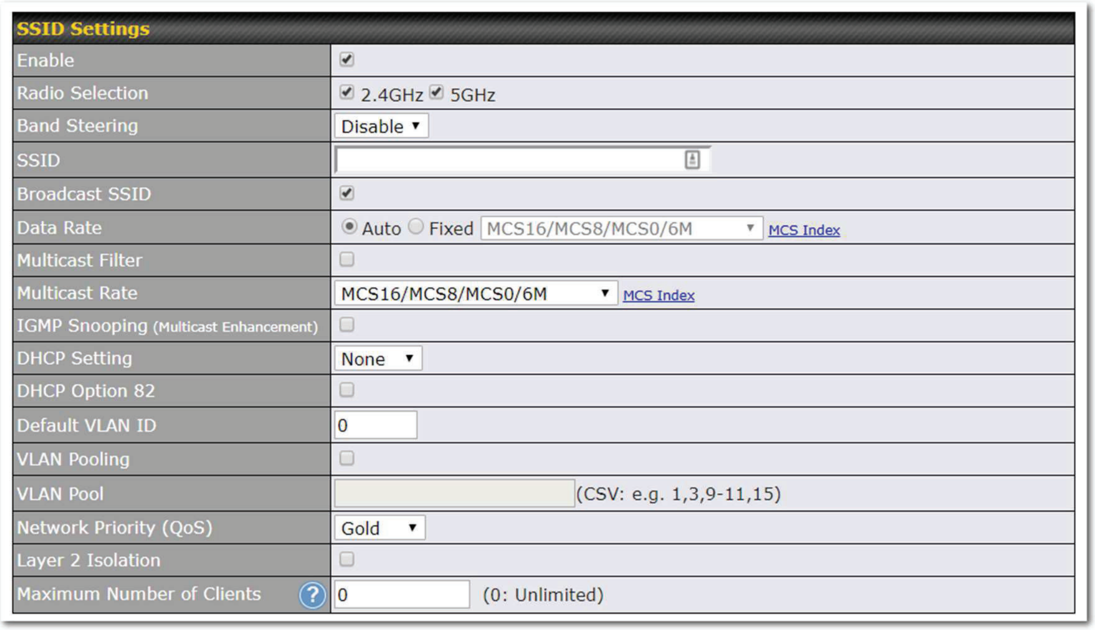
InControl management enabled. Wireless SSID can now be configured on InControl.

| Wireless Network SSID | Security Policy | MAC Address (BSSID) | |
|---|---|---|---|
| PEPLINK_1 | WPA and WPA2 (PSK) | 00:1A:[redacted]<br>00:1A:[redacted] | ✖ |

New SSID

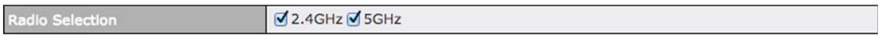
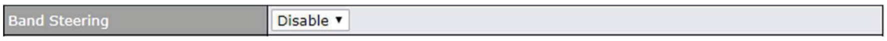
Wireless network settings, including the name of the network (SSID) and security policy, can be defined and managed in this section.

Click **New SSID** to create a new network profile, or click the existing network profile to modify its settings.



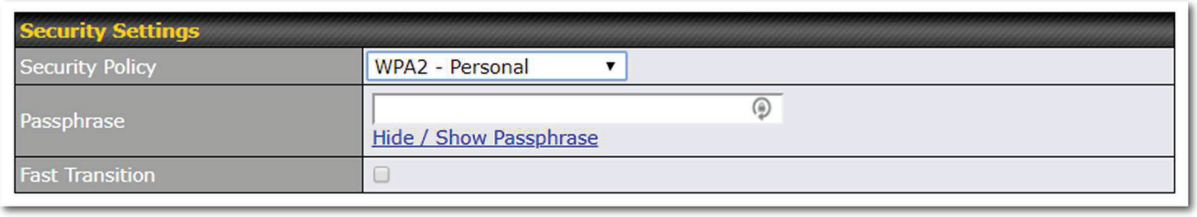
| SSID Settings | |
|---|---|
| Enable | ☑ |
| Radio Selection | ☑ 2.4GHz ☑ 5GHz |
| Band Steering | Disable ▾ |
| SSID | |
| Broadcast SSID | ☑ |
| Data Rate | ● Auto ○ Fixed MCS16/MCS8/MCS0/6M ▾ MCS Index |
| Multicast Filter | □ |
| Multicast Rate | MCS16/MCS8/MCS0/6M ▾ MCS Index |
| IGMP Snooping (Multicast Enhancement) | □ |
| DHCP Setting | None ▾ |
| DHCP Option 82 | □ |
| Default VLAN ID | 0 |
| VLAN Pooling | □ |
| VLAN Pool | (CSV: e.g. 1,3,9-11,15) |
| Network Priority (QoS) | Gold ▾ |
| Layer 2 Isolation | □ |
| Maximum Number of Clients ? | 0 (0: Unlimited) |

| SSID Settings | |
|---|---|
| **Enable** | Check this box to enable wireless SSID. |
| **Radio Selection** | Available only on the AP One AC mini, this setting, shown below, allows you to |

| | |
|---|---|
| | enable or disable either of the two on-board radios.<br><br>Radio Selection ☑2.4GHz ☑5GHz |
| **Band Steering** | This setting, shown below, allows you to reduce 2.4 GHz band overcrowding, AP with band steering steers clients capable of 5 GHz operation to 5 GHz frequency.<br>**Force** - Clients capable of 5 GHz operation are only offered with 5 GHz frequency.<br>**Prefer** - Clients capable of 5 GHz operation are encouraged to associate with 5 GHz frequency. If the clients insist to attempt on 2.4 GHz frequency, 2.4 GHz frequency will be offered.<br>Default: **Disable**<br><br>Band Steering Disable ▾ |
| **SSID** | This setting specifies the AP SSID that Wi-Fi clients will see when scanning. |
| **Broadcast SSID** | This setting specifies whether or not Wi-Fi clients can scan the SSID of this wireless network. **Broadcast SSID** is enabled by default. |
| **Data Rate** | Select **Auto** to allow your access point to set the data rate automatically, or select **Fixed** and choose a rate from the drop-down menu. Click the **MCS Index** link to display a reference table containing MCS and matching HT20 and HT40 values. |
| **Multicast Filter** | This setting enables the filtering of multicast network traffic to the wireless SSID. |
| **Multicast Rate** | This setting specifies the transmit rate to be used for sending multicast network traffic. |
| **IGMP Snooping** | To allow your access point to convert multicast traffic to unicast traffic for associated clients, select this option. |
| **DHCP Setting** | To set your access point as a DHCP server or relay, select **Server** or **Relay**. Otherwise, select **None**. |
| **DHCP Option 82** | If you use a distributed DHCP server/relay environment, you can enable this option to provide additional information on the manner in which clients are physically connected to the network. |
| **Default VLAN ID** | This setting specifies the VLAN ID to be tagged on all outgoing packets generated from this wireless network (i.e., packets that travel from the Wi-Fi segment through your access point to the Ethernet segment via the LAN port). If 802.1x is enabled and a per-user VLAN ID is specified in **authentication reply from the Radius server**, then the value specified by **Default VLAN ID** will be overridden. The default value of this setting is **0**, which means VLAN tagging is disabled (instead of tagged with zero). |
| **VLAN Pooling** | Check this box to enable VLAN pooling using the values specified in **VLAN Pool**. |
| **VLAN Pool** | If VLAN pooling is enabled, enter VLAN pool values separated by commas. |
| **Network Priority (QoS)** | Select from **Gold**, **Silver**, and **Bronze** to control the QoS priority of this wireless network traffic. |

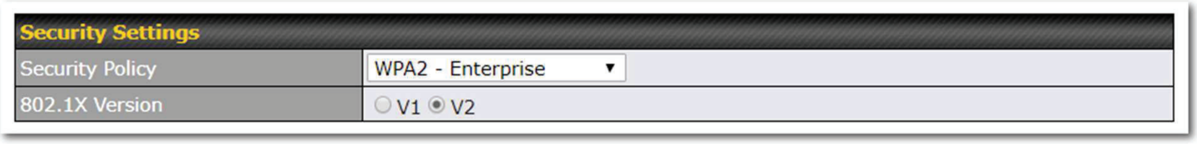
| | |
|---|---|
| **Layer 2 Isolation** | Refers to the second layer in the ISO Open System Interconnect model. When this option is enabled, clients on the same VLAN, SSID, or subnet are isolated to that VLAN, SSID, or subnet, which can enhance security. Traffic is passed to the upper communication layer(s). By default, the setting is disabled. |
| **Maximum Number of Clients** | The maximum number of clients that can simultaneously connect to your access point, or enter **0** to allow unlimited Wi-Fi clients. |

| Security Settings | |
|---|---|
| **Security Policy** | This setting configures the wireless authentication and encryption methods.<br>Available options are **Open (No Encryption)**, **WPA2 – Personal**, **WPA2 – Enterprise**, **WPA/WPA2 - Personal**, and **WPA/WPA2 – Enterprise**. To allow any Wi-Fi client to access your AP without authentication, select **Open (No Encryption)**. Details on each of the available authentication methods follow. |



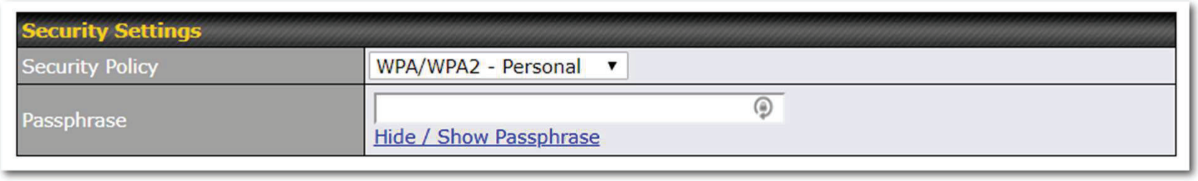
| Security Settings | |
|---|---|
| Security Policy | WPA2 - Personal ▾ |
| Passphrase | Hide / Show Passphrase |
| Fast Transition | □ |

| WPA2 – Personal | |
|---|---|
| **Passphrase** | Enter a passphrase of between 8 and 63 alphanumeric characters to create a passphrase used for data encryption and authentication. Click **Hide / Show Passphrase** to toggle visibility. |
| **Fast Transition** | Fast Transition<br>[802.11r] The transition process of a mobile client as it moves between access points is improved when this option is ticked. |



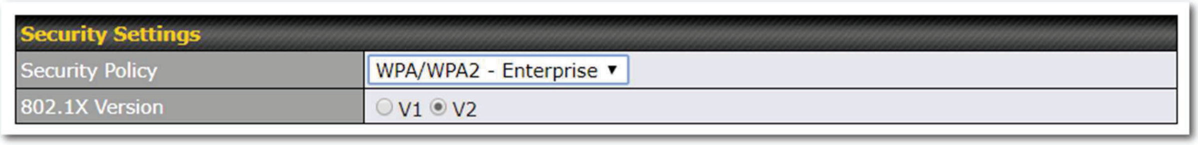
| Security Settings | |
|---|---|
| Security Policy | WPA2 - Enterprise ▾ |
| 802.1X Version | ○ V1 ● V2 |

| WPA2 – Enterprise | |
|---|---|
| **802.1X Version** | Choose **v1** or **v2** of the 802.1x EAPOL. When **v1** is selected, both v1 and v2 clients can associate with the access point. When **v2** is selected, only v2 clients can associate with the access point. Most modern wireless clients support v2. For stations that do not support v2, select **v1**. The default is **v2**. |



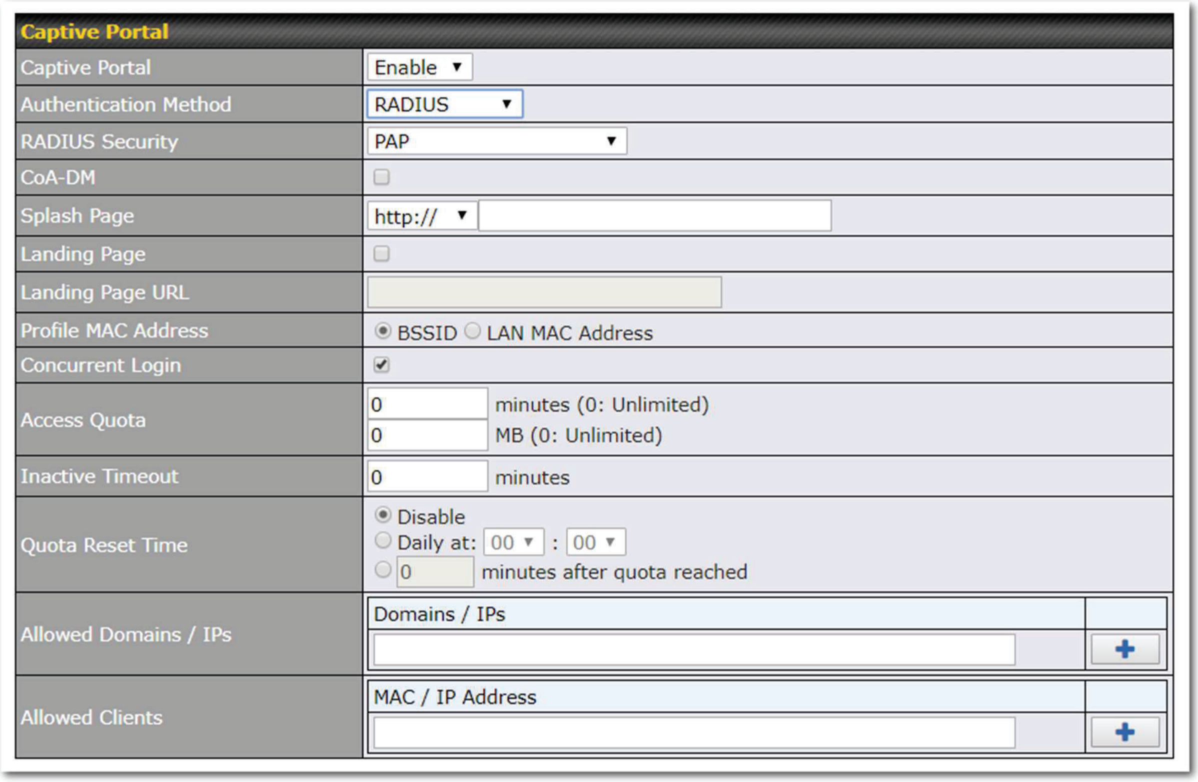
| Security Settings | |
|---|---|
| Security Policy | WPA/WPA2 - Personal ▼ |
| Passphrase | Hide / Show Passphrase |

| WPA/WPA2 – Personal | |
|---|---|
| **Passphrase** | Enter a passphrase of between 8 and 63 alphanumeric characters to create a passphrase used for data encryption and authentication. Click **Hide / Show Passphrase** to toggle visibility. |



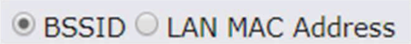
| Security Settings | |
|---|---|
| Security Policy | WPA/WPA2 - Enterprise ▼ |
| 802.1X Version | ○ V1 ● V2 |

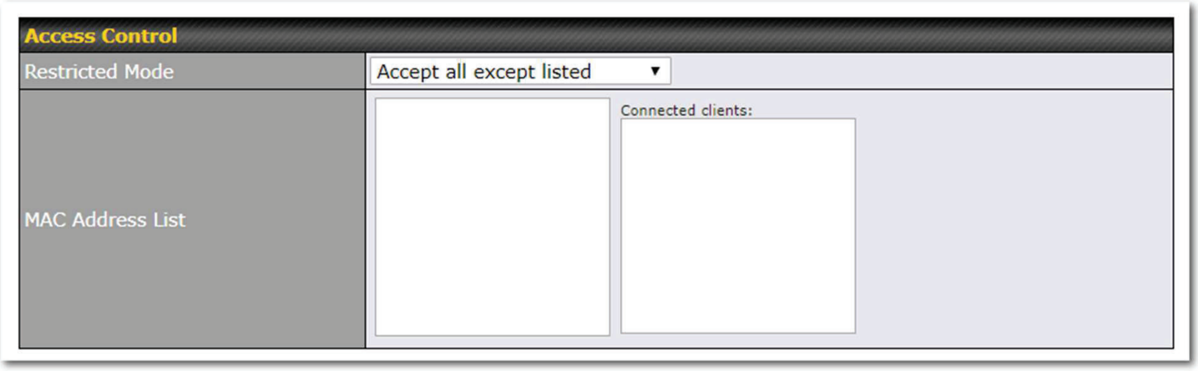
| WPA/WPA2 – Enterprise | |
|---|---|
| **802.1X Version** | Choose **v1** or **v2** of the 802.1x EAPOL. When **v1** is selected, both v1 and v2 clients can associate with the access point. When **v2** is selected, only v2 clients can associate with the access point. Most modern wireless clients support v2. For stations that do not support v2, select **v1**. The default is **v2**. |



| Captive Portal | |
|---|---|
| Captive Portal | Enable ▾ |
| Authentication Method | RADIUS ▾ |
| RADIUS Security | PAP ▾ |
| CoA-DM | □ |
| Splash Page | http:// ▾ |
| Landing Page | □ |
| Landing Page URL | |
| Profile MAC Address | ● BSSID ○ LAN MAC Address |
| Concurrent Login | ☑ |
| Access Quota | 0 minutes (0: Unlimited)<br>0 MB (0: Unlimited) |
| Inactive Timeout | 0 minutes |
| Quota Reset Time | ● Disable<br>○ Daily at: 00 ▾ : 00 ▾<br>○ 0 minutes after quota reached |
| Allowed Domains / IPs | Domains / IPs ✚ |
| Allowed Clients | MAC / IP Address ✚ |

| Captive Portal Login | |
|---|---|
| **Captive Portal** | Select **Enable** to turn on your access point's built-in captive portal functionality. |
| **Authentication Method** | Choose **Open Access** to allow users to connect without authentication or **RADIUS** to require authentication. If **RADIUS** is selected, you'll be given the opportunity to select a RADIUS security method in the next field. |
| **RADIUS Security** | Select **PAP**, **EAP-TTLS PAP**, **EAP-TTLS MSCHAPv2**, or **PEAPv0 EAP-MSCHAPv2**. |
| **Splash Page** | If your web portal will use a splash page, choose **HTTP** or **HTTPS** and enter the splash page's URL. |
| **Landing Page** | If your web portal will use a landing page, check this box. |
| **Landing Page URL** | If you have checked **Landing Page**, enter your landing page URL here. |
| **Profile MAC address** | Value used on Called-Station-ID.  By default the BSSID of the VAP is used.<br>When LAN MAC Address is used teh AN MAC Address of the VAP is used instead of the BSSID. |

| | |
|---|---|
| |  ● BSSID ○ LAN MAC Address |
| **Concurrent Login** | Check this box to allow users to have more than one logged in session active at a time. |
| **Access Quota** | Enter a value in minutes to limit access time on a given login or enter **0** to allow unlimited use time on a single login. Likewise, enter a value in MB for the total bandwidth allowed or enter **0** to allow unlimited bandwidth on a single login. |
| **Inactive Timeout** | Enter a value in minutes to logout following the specified period of inactivity or enter **0** to disable inactivity logouts. |
| **Quota Reset Time** | This menu determines how your usage quota resets. Setting it to **Daily** will reset it at a specified time every day. Setting a number of **minutes after quota reached** establishes a timer for each user that begins after the quota has been reached. |
| **Allowed Domains / IPs** | To whitelist a domain or IP address, enter the domain name / IP address here and click + . To delete an existing entry, click the ✖ button next to it. |
| **Allowed Client IPs** | To whitelist a client IP address, enter the IP address here and click + . To delete an existing entry, click the ✖ button next to it. |

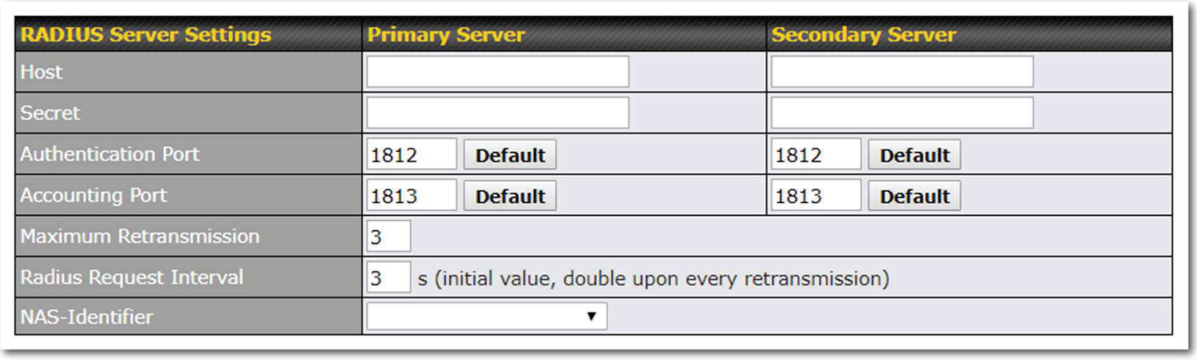


Access Control

Restricted Mode: Accept all except listed ▾

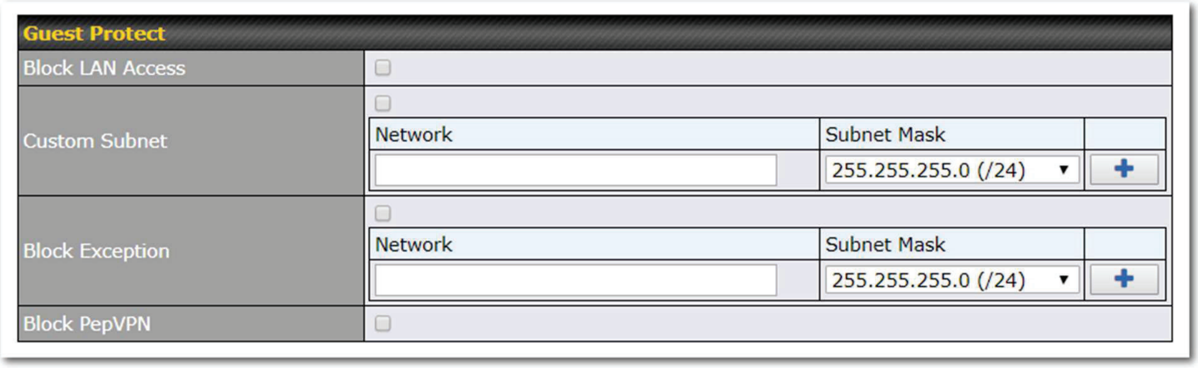
MAC Address List

| Access Control | |
|---|---|
| **Restricted Mode** | The settings allow the administrator to control access using Mac address filtering. Available options are **None**, **Deny all except listed**, **Accept all except listed**, and **RADIUS MAC Authentication**. |
| **MAC Address List** | Connections coming from the MAC addresses in this list will be either denied or accepted based on the option selected in the previous field. |



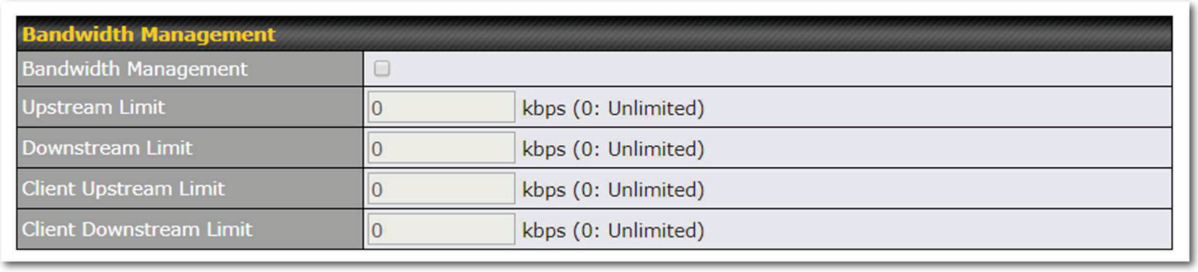
| RADIUS Server Settings | Primary Server | Secondary Server |
|---|---|---|
| Host | | |
| Secret | | |
| Authentication Port | 1812 Default | 1812 Default |
| Accounting Port | 1813 Default | 1813 Default |
| Maximum Retransmission | 3 | |
| Radius Request Interval | 3 s (initial value, double upon every retransmission) | |
| NAS-Identifier | ▾ | |

| RADIUS Server Settings | |
|---|---|
| **Host** | Enter the IP address of the primary RADIUS server and, if applicable, the secondary RADIUS server. |
| **Secret** | Enter the RADIUS shared secret for the primary server and, if applicable, the secondary RADIUS server. |
| **Authentication Port** | Enter the UDP authentication port(s) used by your RADIUS server(s) or click the **Default** button to enter **1812**. |
| **Accounting Port** | Enter the UDP accounting port(s) used by your RADIUS server(s) or click the **Default** button to enter **1813**. |
| **Maximum Retransmission** | Enter the maximum number of allowed retransmissions. |
| **RADIUS Request Interval** | Enter a value in seconds to limit RADIUS request frequency. Note the initial value will double on each retransmission. |
| **NAS-Identifier** | Information added to access requests to identify the NAS.<br>Select **Device Name**, **LAN MAC Address**, **Device Serial Number** or enter a **Custom Value**<br>When the NAS ID is not defined, the Device Name will be used as the NAS ID in RADIUS requests. |



| Guest Protect | | | |
|---|---|---|---|
| Block LAN Access | □ | | |
| Custom Subnet | □ | | |
| | Network | Subnet Mask | |
| | | 255.255.255.0 (/24) ▾ | ✚ |
| Block Exception | □ | | |
| | Network | Subnet Mask | |
| | | 255.255.255.0 (/24) ▾ | ✚ |
| Block PepVPN | □ | | |

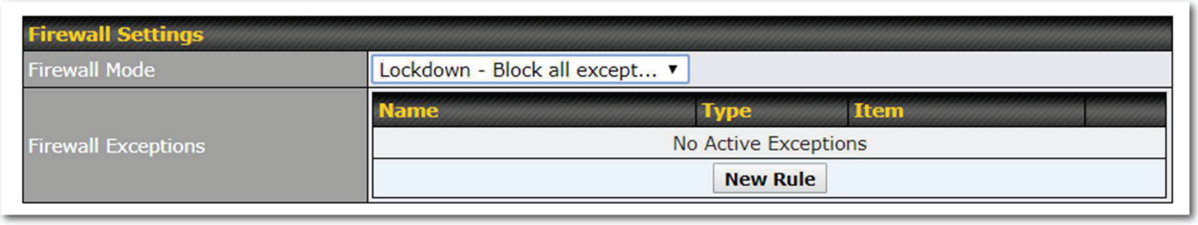
| Guest Protect | |
|---|---|
| **Block LAN Access** | Check this box to block access from the LAN. |
| **Custom Subnet** | To specify a subnet to block, enter the IP address and choose a subnet mask from the drop-down menu. To add the blocked subnet, click ✚. To delete a blocked subnet, click ✖. |
| **Block Exception** | To create an exception to a blocked subnet (above), enter the IP address and choose a subnet mask from the drop-down menu. To add the exception, click ✚. To delete an exception, click ✖. |
| **Block PepVPN** | To block PepVPN access, check this box. |



| Bandwidth Management | |
|---|---|
| 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) |

| Bandwidth Management | |
|---|---|
| **Bandwidth Management** | Check this box to enable bandwidth management. |
| **Upstream Limit** | Enter a value in kbps to limit the wireless network’s upstream bandwidth.<br>Enter **0** to allow unlimited upstream bandwidth. |

| | |
|---|---|
| **Downstream Limit** | Enter a value in kbps to limit the wireless network's downstream bandwidth.<br>Enter **0** to allow unlimited downstream bandwidth. |
| **Client Upstream Limit** | Enter a value in kbps to limit connected clients' upstream bandwidth.<br>Enter **0** to allow unlimited upstream bandwidth. |
| **Client Downstream Limit** | Enter a value in kbps to limit connected clients' downstream bandwidth. Enter **0** to allow unlimited downstream bandwidth. |

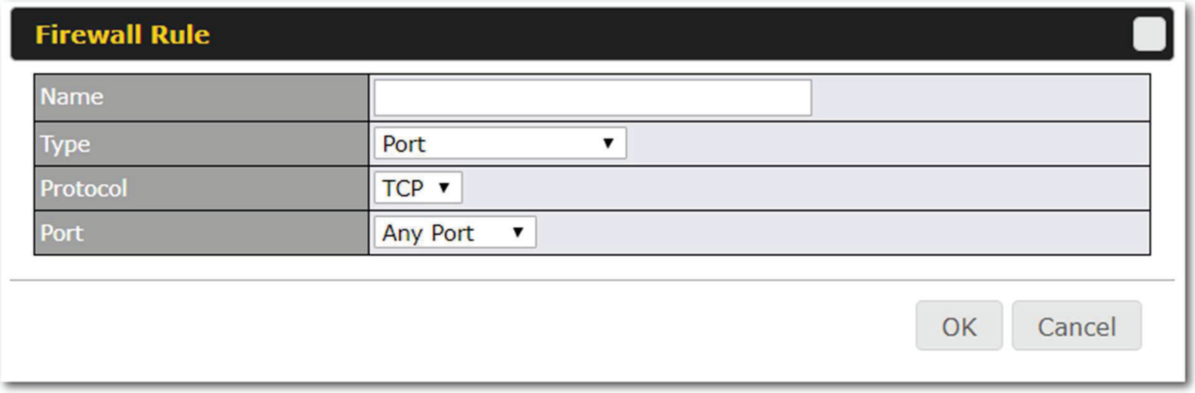


**Firewall Settings**

| | |
|---|---|
| Firewall Mode | Lockdown - Block all except... ▾ |
| Firewall Exceptions | |

| Name | Type | Item |
|---|---|---|
| No Active Exceptions | | |

| Firewall Settings | |
|---|---|
| **Firewall Mode** | Choose **Flexible – Allow all except…** or **Lockdown – Block all except…** to turn on the firewall, then create rules for the firewall exceptions by clicking New Rule. See the discussion below for details on creating a firewall rule. To delete a rule, click the associated ✖ button. To turn off the firewall, select **Disable**. |

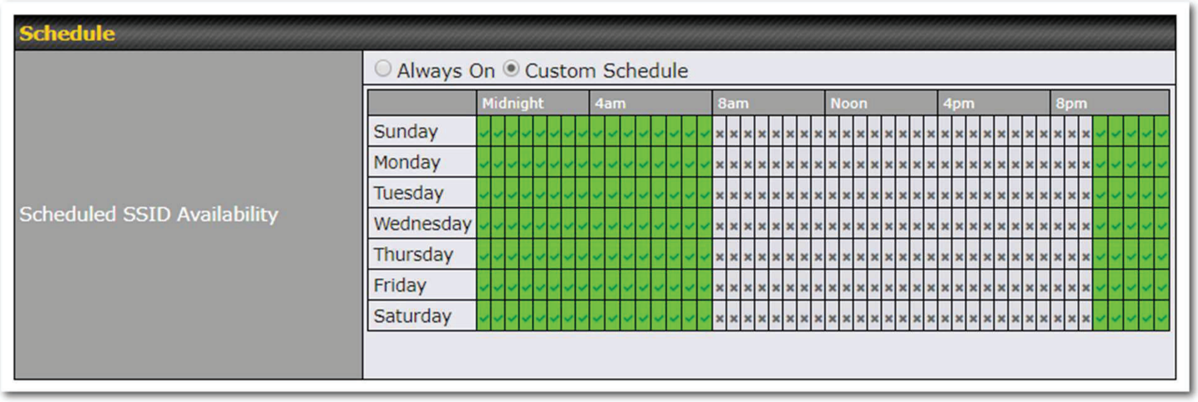


**Firewall Rule**

| | |
|---|---|
| Name | |
| Type | Port ▾ |
| Protocol | TCP ▾ |
| Port | Any Port ▾ |

| Firewall Rule | |
|---|---|
| **Name** | Enter a descriptive name for the firewall rule in this field. |
| **Type** | Choose **Port**, **Domain**, **IP Address**, **MAC Address** or **Application/Service** to allow or deny traffic from any of those identifiers. Depending on the option chosen, the following |

| | |
|---|---|
| | fields will vary. |
| **Protocol / Port** | Choose **TCP** or **UDP** from the **Protocol** drop-down menu to allow or deny traffic using either of those protocols. From the **Port** drop-down menu, choose **Any Port** to allow or deny TCP or UDP traffic on any port. Choose **Single Port** and then enter a port number in the provided field to allow or block TCP or UDP traffic from that port only. You can also choose **Port Range** and enter a range of ports in the provided fields to allow or deny TCP or UDP traffic from the specified port range. |
| **IP Address / Subnet Mask** | If you have chosen **IP Address** as your firewall rule type, enter the IP address and subnet mask identifying the subnet to allow or deny. |
| **MAC Address** | If you have chosen **MAC Address** as your firewall rule type, enter the MAC address identifying the machine to allow or deny. |
| **Application/ Service** | If you have chosen **Application/Service** as your firewall rule type, choose **TCP** or **UDP** from the **Protocol** drop-down menu to allow or deny traffic using either of those protocols. Select a service from the **Selection Tool** drop down list.<br>From the **Port** drop-down menu, choose **Any Port** to allow or deny TCP or UDP traffic on any port. Choose S**ingle Port** and then enter a port number in the provided field to allow or block TCP or UDP traffic from that port only. You can also choose **Port Range** and enter a range of ports in the provided fields to allow or deny TCP or UDP traffic from the specified port range. |

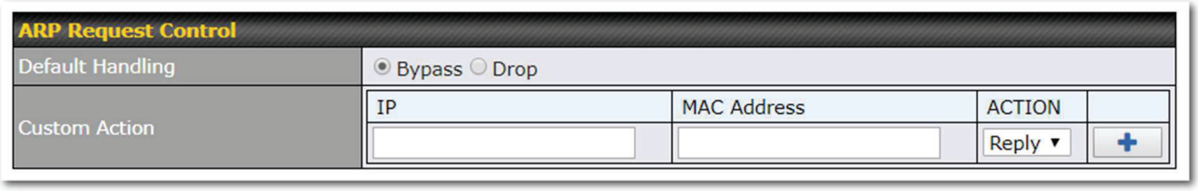


Schedule

| | |
|---|---|
| Scheduled SSID Availability | ○ Always On ● Custom Schedule |

|  | Midnight |  |  |  |  |  |  |  | 4am |  |  |  |  |  |  |  | 8am |  |  |  |  |  |  |  | Noon |  |  |  |  |  |  |  | 4pm |  |  |  |  |  |  |  | 8pm |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sunday | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | ✓ | ✓ | ✓ | ✓ | ✓ |
| Monday | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | ✓ | ✓ | ✓ | ✓ | ✓ |
| Tuesday | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | ✓ | ✓ | ✓ | ✓ | ✓ |
| Wednesday | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | ✓ | ✓ | ✓ | ✓ | ✓ |
| Thursday | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | ✓ | ✓ | ✓ | ✓ | ✓ |
| Friday | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | ✓ | ✓ | ✓ | ✓ | ✓ |
| Saturday | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | × | ✓ | ✓ | ✓ | ✓ | ✓ |

| Schedule | |
|---|---|
| Option to  schedule SSID availability | |
| **Always on** | The SSID is always on |
| **Custom/Schedule** | Define a custom schedule by selecting the desired time slots when the SSID should be enabled |

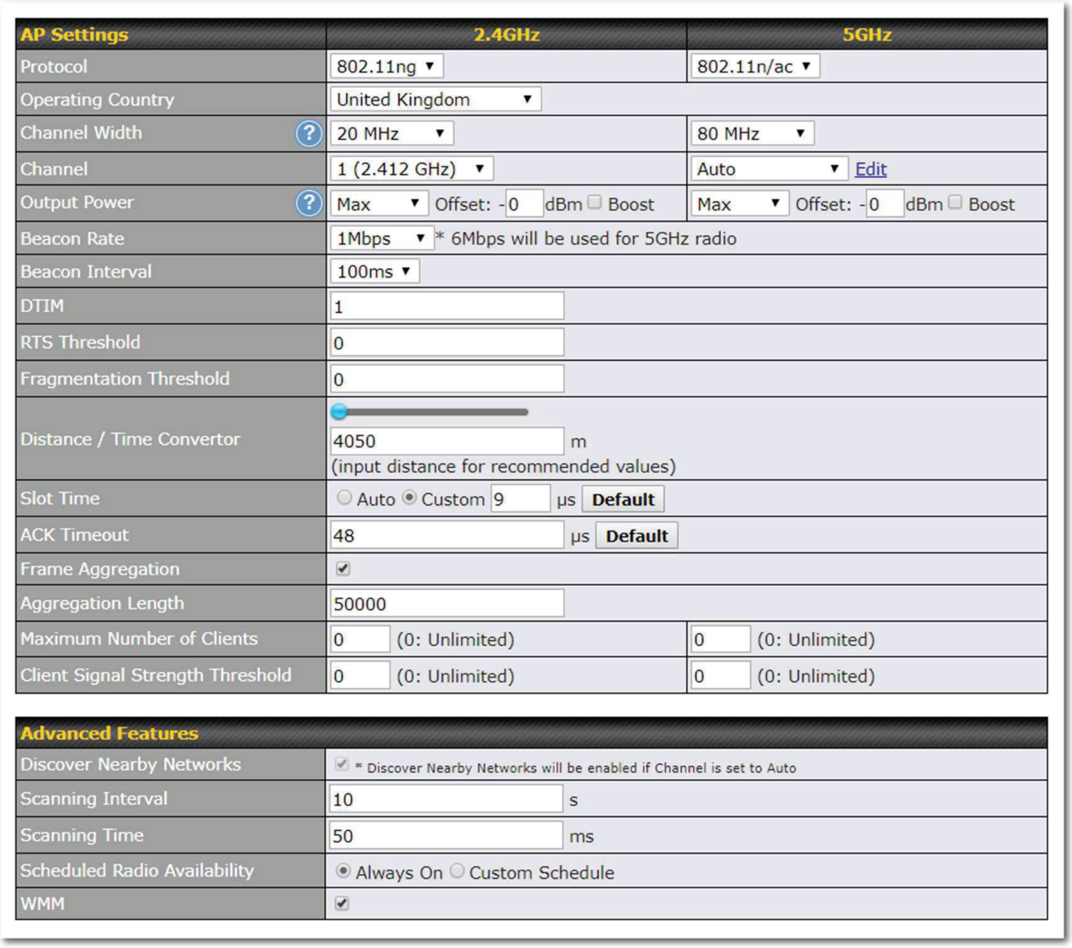


| ARP Request Control | |
|---|---|
| Default Handling | ● Bypass ○ Drop |
| Custom Action | IP: ___ MAC Address: ___ ACTION: Reply ▾ ✚ |

| ARP Request Control | |
|---|---|
| ARP request control is a Broadcast filter feature which:<br>● blocks all broadcast traffic,<br>● relays DHCP requests,<br>● responds to ARP requests asking the MAC address of the gateway | |
| **Default handling** | Choose between **Bypass** or **Drop** (default Bypass) |
| **Custom Action** | Add IP/ MAC address pairs to this field to either:<br>**REPLY** : The AP replies to the MAC address itself according to the config<br>**DNAT :** The AP can translate the destination MAC address from a broadcast to a particular MAC address |

## 8.2 Settings

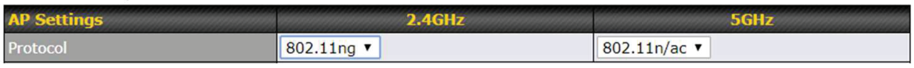
Basic access point operation settings, such as the protocol and channels used, as well as scanning interval and other advanced settings, can be defined and managed in this section

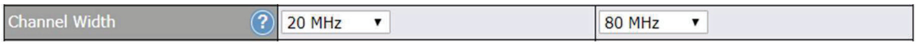
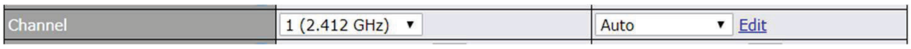
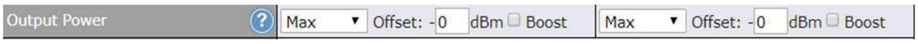
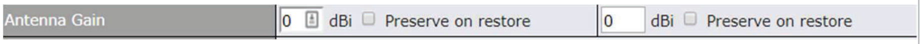


| AP Settings | 2.4GHz | 5GHz |
|---|---|---|
| Protocol | 802.11ng ▾ | 802.11n/ac ▾ |
| Operating Country | United Kingdom ▾ | |
| Channel Width ? | 20 MHz ▾ | 80 MHz ▾ |
| Channel | 1 (2.412 GHz) ▾ | Auto ▾ Edit |
| Output Power ? | Max ▾ Offset: -0 dBm ☐ Boost | Max ▾ Offset: -0 dBm ☐ Boost |
| Beacon Rate | 1Mbps ▾ * 6Mbps will be used for 5GHz radio | |
| Beacon Interval | 100ms ▾ | |
| DTIM | 1 | |
| RTS Threshold | 0 | |
| Fragmentation Threshold | 0 | |
| Distance / Time Convertor | 4050 m<br>(input distance for recommended values) | |
| Slot Time | ○ Auto ● Custom 9 μs Default | |
| ACK Timeout | 48 μs Default | |
| Frame Aggregation | ☑ | |
| Aggregation Length | 50000 | |
| Maximum Number of Clients | 0 (0: Unlimited) | 0 (0: Unlimited) |
| Client Signal Strength Threshold | 0 (0: Unlimited) | 0 (0: Unlimited) |

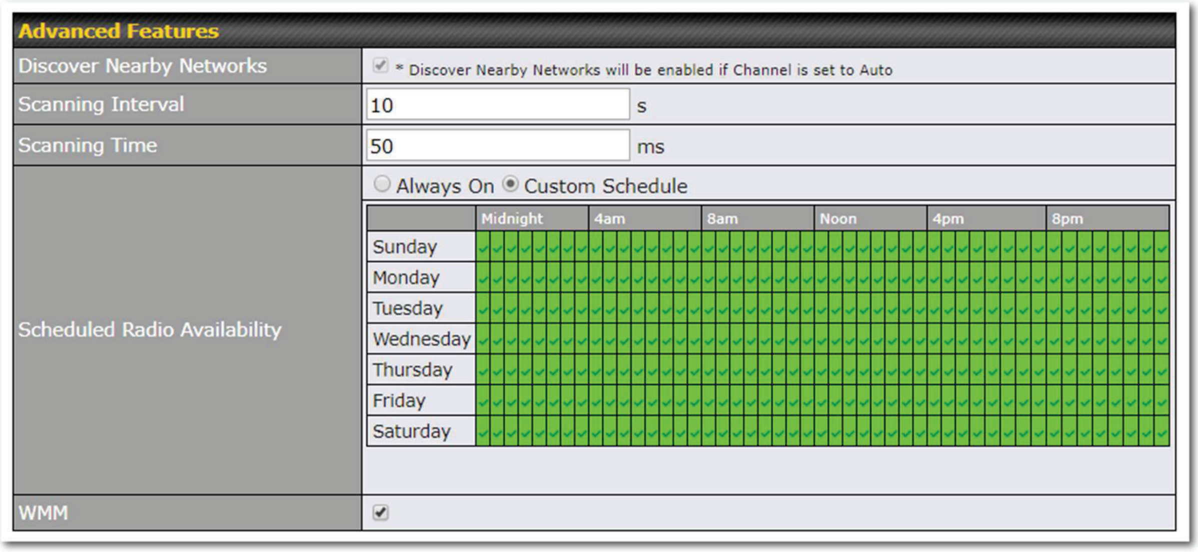
| Advanced Features | |
|---|---|
| Discover Nearby Networks | ☑ * Discover Nearby Networks will be enabled if Channel is set to Auto |
| Scanning Interval | 10 s |
| Scanning Time | 50 ms |
| Scheduled Radio Availability | ● Always On ○ Custom Schedule |
| WMM | ☑ |

## AP Settings

| | |
|---|---|
| **Protocol** | Choose **802.11ng** or **802.11n/ac** as your access point's Wi-Fi protocol.<br>The AP One AC mini provides the **802.11ng** protocol for the 2.4 GHz band and the **802.11n/ac** protocol for the 5GHz band, as shown below.<br><br>AP Settings \| 2.4GHz \| 5GHz<br>Protocol \| 802.11ng ▾ \| 802.11n/ac ▾ |
| **Operating Country** | This drop-down menu specifies the national / regional regulations the AP should follow. If a North American region is selected, RF channels 1 to 11 will be available and the maximum transmission power will be 26 dBm (400 mW).<br>If European region is selected, RF channels 1 to 13 will be available. The maximum transmission power will be 20 dBm (100 mW).<br><br>NOTE: Users are required to choose an option suitable to local laws and regulations. Per FCC regulation, the country selection is not available on all models marketed in the |

| | |
|---|---|
| | US. All US models are fixed to US channels only. |
| **Channel Width** | This option defines which channel width the radio will use:<br>**20MHz** - Supports clients with 20MHz capability.<br>This is the default value for 802.11ng.<br>**40MHz** - Supports clients with 20/40MHz capability.<br>**20/40MHz** - Supports clients with 20/40 MHz capability.<br>The radio will fall back to 20MHz if it detects APs that only support 20MHz. This is the default value for 802.11na.<br>**80MHz** - Supports clients with 20/40/80MHz capability.<br>This is the default value for 802.11n/ac<br><br>Channel Width ? 20 MHz ▾ 80 MHz ▾ |
| **Channel** | This drop-down menu selects the 2.4 Ghz and 5GHz 802.11 channels to be used.<br>When **Auto** is selected, the system will perform channel scanning based on the scheduled time set and choose the most suitable channel automatically.<br><br>Channel 1 (2.412 GHz) ▾ Auto ▾ Edit |
| **Output Power** | This option enables the configuration of transmission power.<br>Choose between :Max / High / Medium / Low<br>**Max** is the Maximum power supported for that country or Maximum power supported for the device (whichever is the smaller value)<br>**High** is 3dBm below the max value.<br>**Medium** is 3dBm below high value<br>**Low** is 3 dBm below Medium value<br><br>Output Power ? Max ▾ Offset: -0 dBm □ Boost Max ▾ Offset: -0 dBm □ Boost |
| **Antenna Gain** | This advanced feature becomes available when selecting this option in the Help section( select the question mark) of the Output Power.<br><br>Antenna Gain 0 dBi □ Preserve on restore 0 dBi □ Preserve on restore |
| **Beacon Rate** | This drop-down menu provides the option to send beacons in different transmit bit rates. The bit rates are **1 Mbps**, **2 Mbps**, **5.5 Mbps**, **6 Mbps**, and **11 Mbps**. |
| **Beacon Interval** | Set the time between each beacon send. Available options are **100 ms**, **250 ms**, and **500 ms**. |
| **DTIM** | Set the frequency for the beacon to include delivery traffic indication messages (DTIM). The interval unit is measured in milliseconds. |
| **RTS Threshold** | Set the minimum packet size for your access point to send an RTS using the RTS/CTS handshake. Setting **0** disables this feature. |
| **Fragmentation Threshold** | Enter a value to limit the maximum frame size, which can improve performance. |
| **Distance / Time Convertor** | This slider and text entry field can be used to interactively set slot time. |
| **Slot Time** | This field provides the option to modify the unit wait time before your access point |

|  |  |
|---|---|
|  | transmits. The default value is **9µs.** |
| **ACK Timeout** | Set the wait time to receive an acknowledgement packet before retransmitting. The default value is **48µs.** |
| **Frame Aggregation** | With this feature enabled, throughput will be increased by sending two or more data frames in a single transmission. |
| **Aggregation Length** | This field is only available when **Frame Aggregation** is enabled. It specifies the frame length for frame aggregation. By default, it is set to **50000**. |
| **Max number of Clients** | Enter the maximum clients that can simultaneously connect to your access point or set the value to **0** to allow unlimited clients. |
| **Client Signal Strength Threshold** | This field determines the minimum acceptable client signal strength, specified in megawatts. If client signal strength does not meet this minimum, the client will not be allowed to connect. |



Advanced Features

Discover Nearby Networks ☑ * Discover Nearby Networks will be enabled if Channel is set to Auto

Scanning Interval 10 s

Scanning Time 50 ms

Scheduled Radio Availability ○ Always On ● Custom Schedule

|  | Midnight |  |  |  |  |  |  |  | 4am |  |  |  |  |  |  |  | 8am |  |  |  |  |  |  |  | Noon |  |  |  |  |  |  |  | 4pm |  |  |  |  |  |  |  | 8pm |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sunday | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Monday | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Tuesday | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Wednesday | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Thursday | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Friday | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Saturday | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

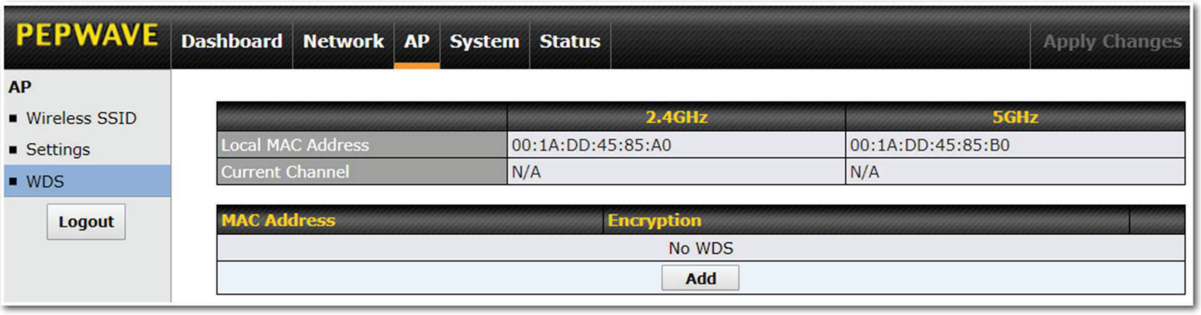
WMM ☑

| Advanced Features |  |
|---|---|
| **Discover Nearby Networks** | Check this box to enable network discovery. Note that setting **Channel** to **Auto** will activate this feature automatically. |
| **Scanning Interval** | This setting controls the interval, in seconds, that your access point scans for nearby networks. |

| | |
|---|---|
| **Scanning Time** | This setting specifies the time, in milliseconds, that your access point scans any particular channel while searching for nearby networks. |
| **Scheduled Radio Availability** | Click **Custom Schedule** to specify radio availability schedule options or select **Always On** to make the radio continuously available. |
| **WMM** | This checkbox enables Wi-Fi Multimedia (WMM), also known as Wireless Multimedia Extensions (WME), on your access point. The default is **enabled**. |

## 8.3 WDS

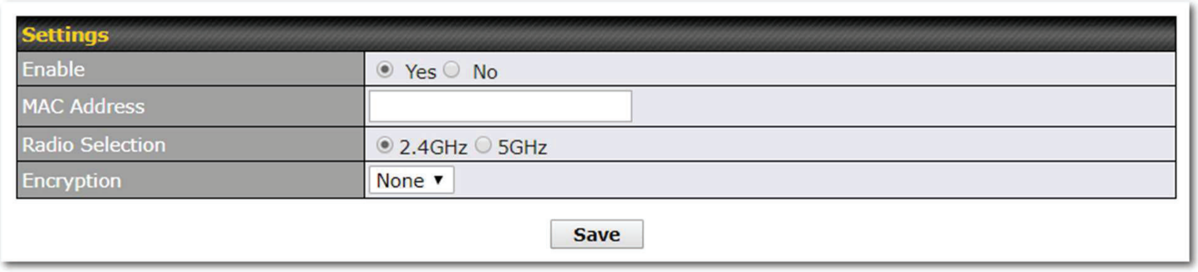
A wireless distribution system (WDS) provides a way to link access points when wires are not feasible or desirable. A WDS can also extend wireless network coverage for wireless clients. Note that your access point's channel setting should not be set to **Auto** when using WDS.



| | 2.4GHz | 5GHz |
|---|---|---|
| Local MAC Address | 00:1A:DD:45:85:A0 | 00:1A:DD:45:85:B0 |
| Current Channel | N/A | N/A |

| MAC Address | Encryption |
|---|---|
| No WDS | |

To create a new WDS, click **Add**.



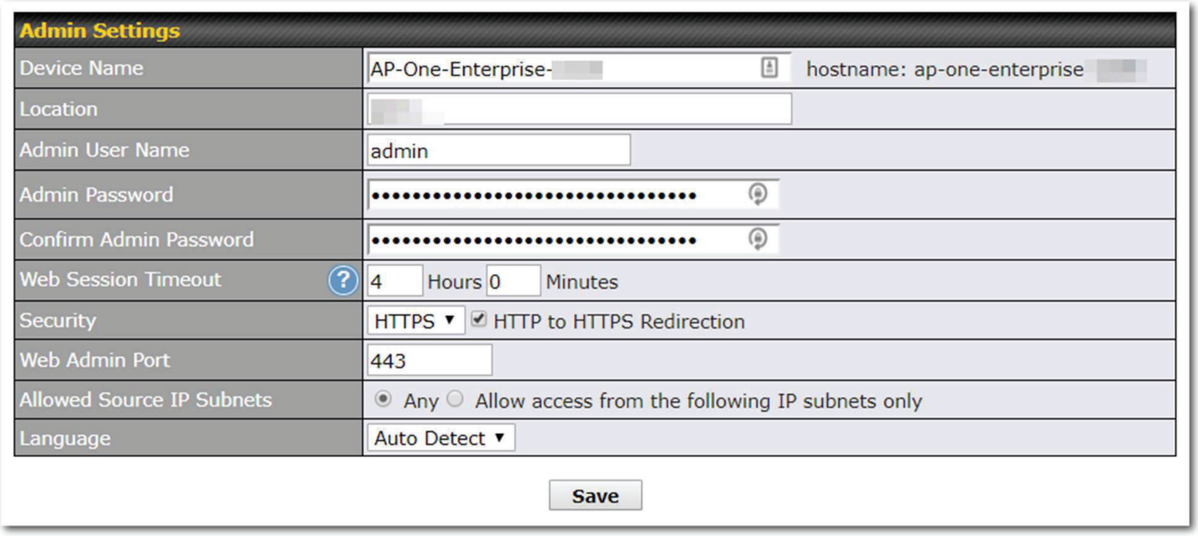
| Settings | |
|---|---|
| Enable | ● Yes ○ No |
| MAC Address | |
| Radio Selection | ● 2.4GHz ○ 5GHz |
| Encryption | None ▾ |

| WDS | |
|---|---|
| **Enable** | Check this box to enable WDS. |
| **MAC Address** | Enter the MAC address of the access point with which to form a WDS link. |

| | |
|---|---|
| **Encryption** | Select **AES** to enable encryption for WDS peer connections. Selecting **None** disables encryption. |

# 9 System Tab

## 9.1 Admin Security



| Admin Settings | |
|---|---|
| Device Name | AP-One-Enterprise-[redacted] hostname: ap-one-enterprise[redacted] |
| Location | [redacted] |
| Admin User Name | admin |
| Admin Password | •••••••••••••••••••••••••••••••••• |
| Confirm Admin Password | •••••••••••••••••••••••••••••••••• |
| Web Session Timeout ? | 4 Hours 0 Minutes |
| Security | HTTPS ▾ ☑ HTTP to HTTPS Redirection |
| Web Admin Port | 443 |
| Allowed Source IP Subnets | ● Any ○ Allow access from the following IP subnets only |
| Language | Auto Detect ▾ |

| Admin Settings | |
|---|---|
| **Devicer Name** | This field allows you to define a name for this Peplink Balance unit.<br>By default, **Device Name** is set as **Model_XXXX**, where *XXXX* refers to the last 4 digits of the serial number of that unit. |
| **Location** | field to add Location name |
| **Admin User** | **Admin User Name** is set as **admin** by default, but can be changed. |

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