PEPWAVE

Broadband Possibilities

Pepwave Device Connector User Manual

PEPWAVE
Broadband Possibilities

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1. Getting Started

What's in the Box

DCS-GN

- 12V power supply
- 2.4GHz 5dBi omni antenna

DCS-AGN

- 12V power supply
- 2x dual-band 5dBi omni antenna

DCS-GN-IP55/DCS-AGN-IP55

- 12V power supply
- 12V Pepwave passive PoE

DCS-GN-IP67/DCS-AGN-IP67

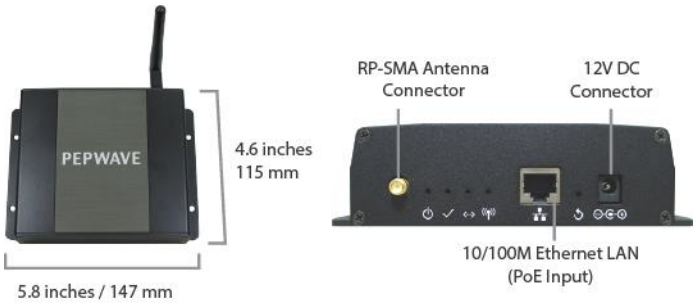
- 1x waterproof Ethernet kit

DCS-AGN2-IP67

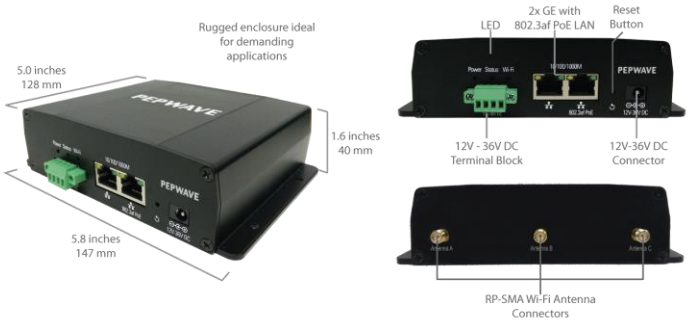
- 1x console adapter
- 1x waterproof power connector kit
- 2x waterproof Ethernet kit

Get to Know Your Device Connector

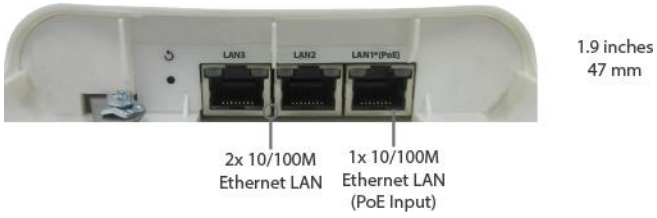
Device Connector

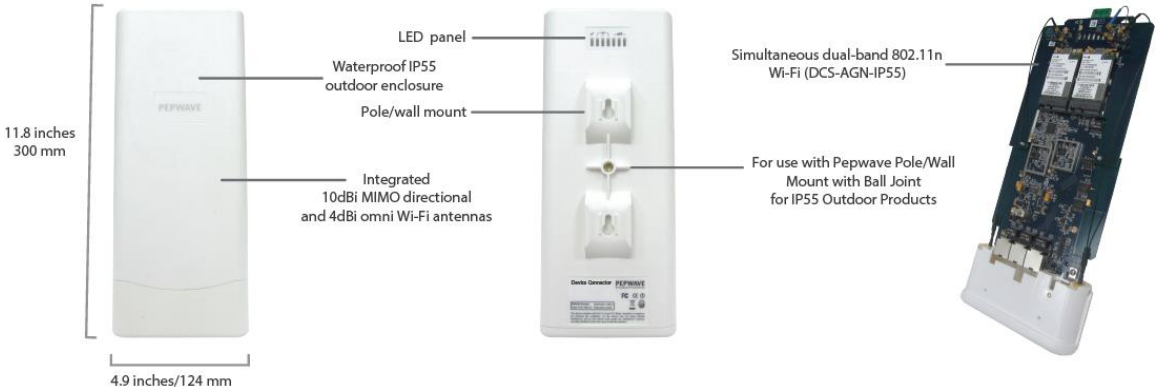


Device Connector Rugged

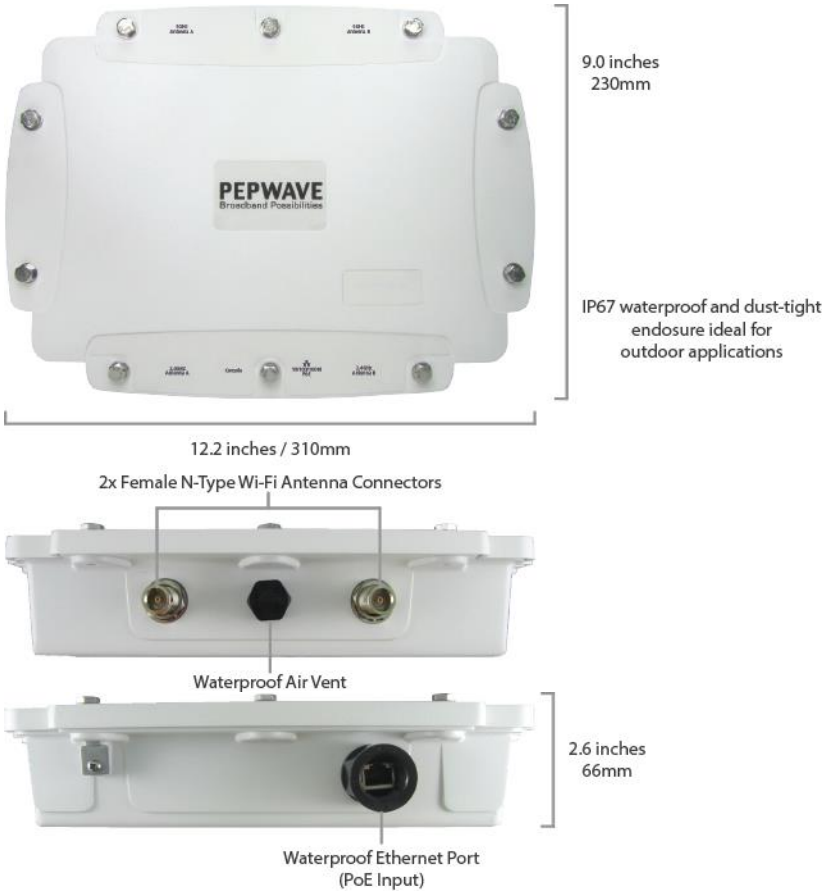


Device Connector IP55/600M IP55

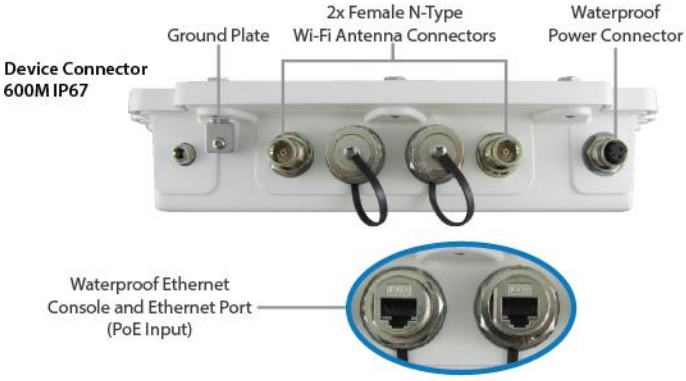




Device Connector IP67/300M IP67



Device Connector 600M IP67



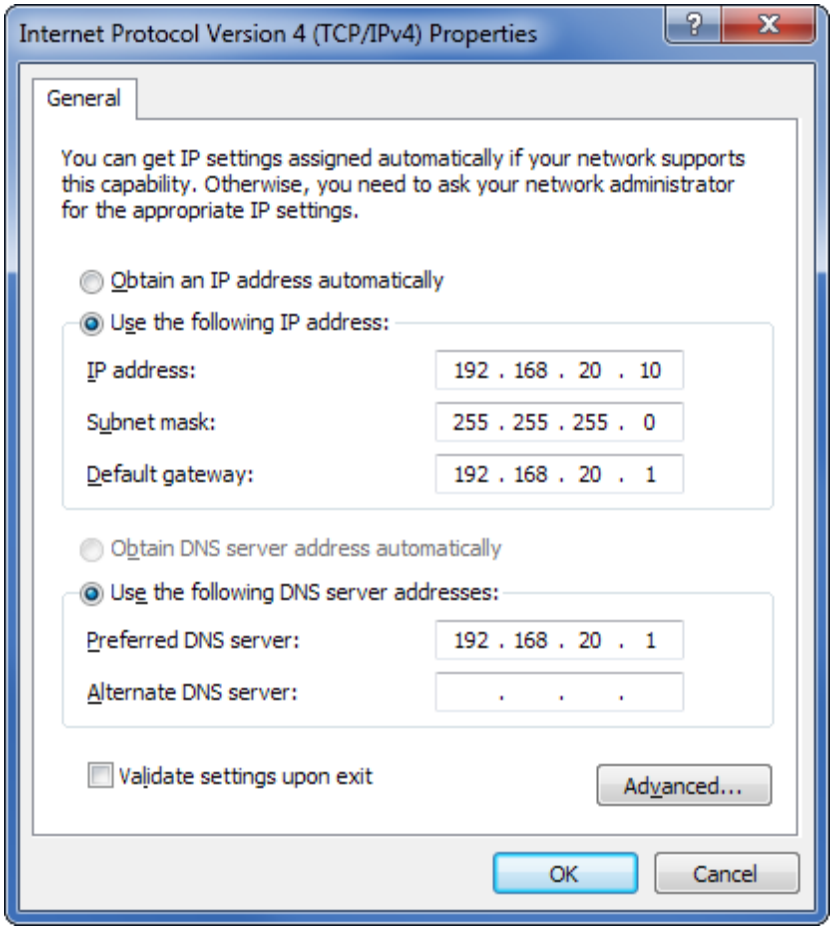
Access the Web Admin Interface

There are two ways to access the **Web Admin** page.

Connect by Ethernet

To access the Web Admin page by Ethernet, your PC must be in the same subnet as the Device Connector *(i.e. 192.168.20.X)*.

Your PC should be set up as follow on the **Internet Protocol (TCP/IP) Properties** or **Network** screen:



Connect by Wi-Fi

Connect to the SSID: PEPWAVE_XXX where XXXX represents the last four digits of your device's serial number (e.g. 7D6E). Passphrase is the last 8 hexadecimal digits of your device's LAN MAC address (e.g. DDC3CCC0)

Now you are ready to start the first time configuration of the Pepwave Device Connector. On your PC, start a web browser, go to this URL:

http://192.168.20.1/

Choose Your Connection Mode

The Device Connector supports both Wi-Fi and wired connection modes.

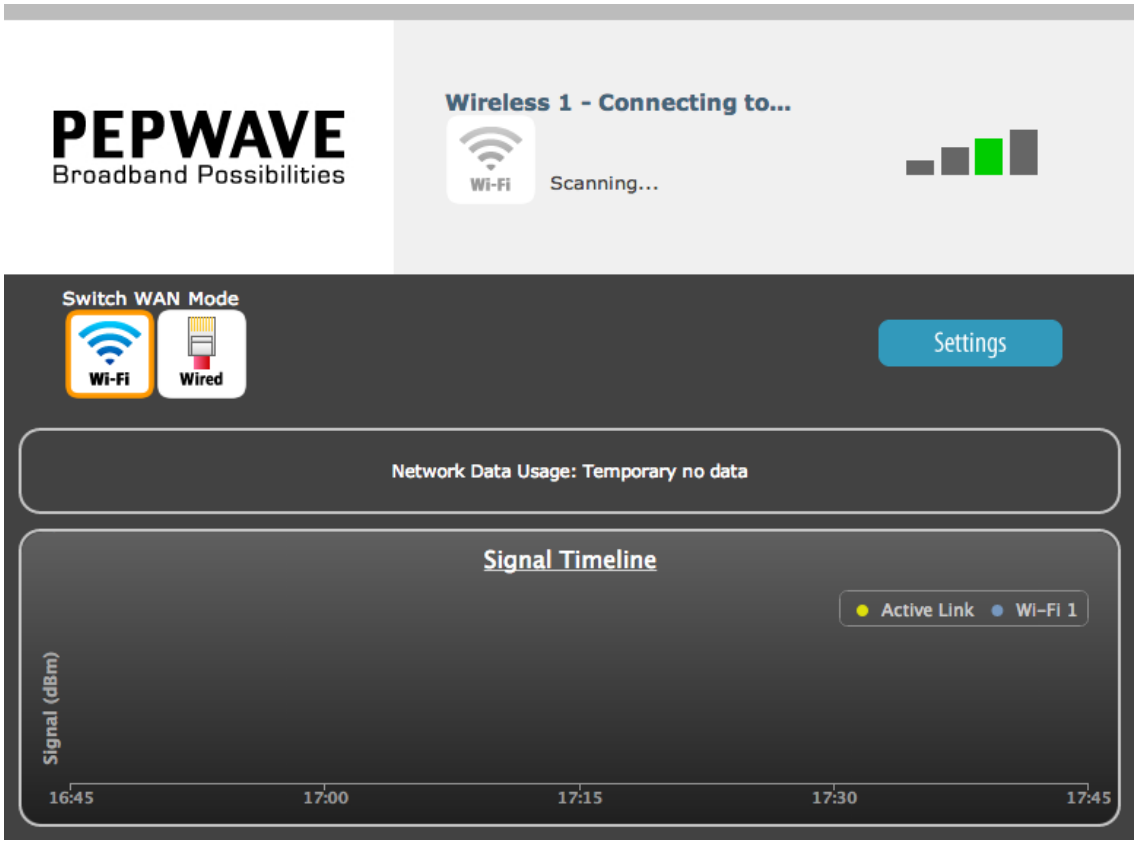
Wi-Fi Mode

Use Wi-Fi mode to communicate with vending machines, thermostats, surveillance cameras, and other Ethernet-only devices using TruePower Wi-Fi. For information on configuring Wi-Fi mode, see **Basic Setup**.

Wired Mode

To use the Device Connector as a Layer 2 wired bridge, ideal for situations where Wi-Fi access is unnecessary or a security risk, choose wired mode. For information on configuring wired mode, see **Basic Setup**.

To change settings in Wi-Fi or wired mode, make sure the appropriate mode is selected on the **Dashboard** page under **Switch WAN Mode**, and then click the **Settings** button on the right side of the page.

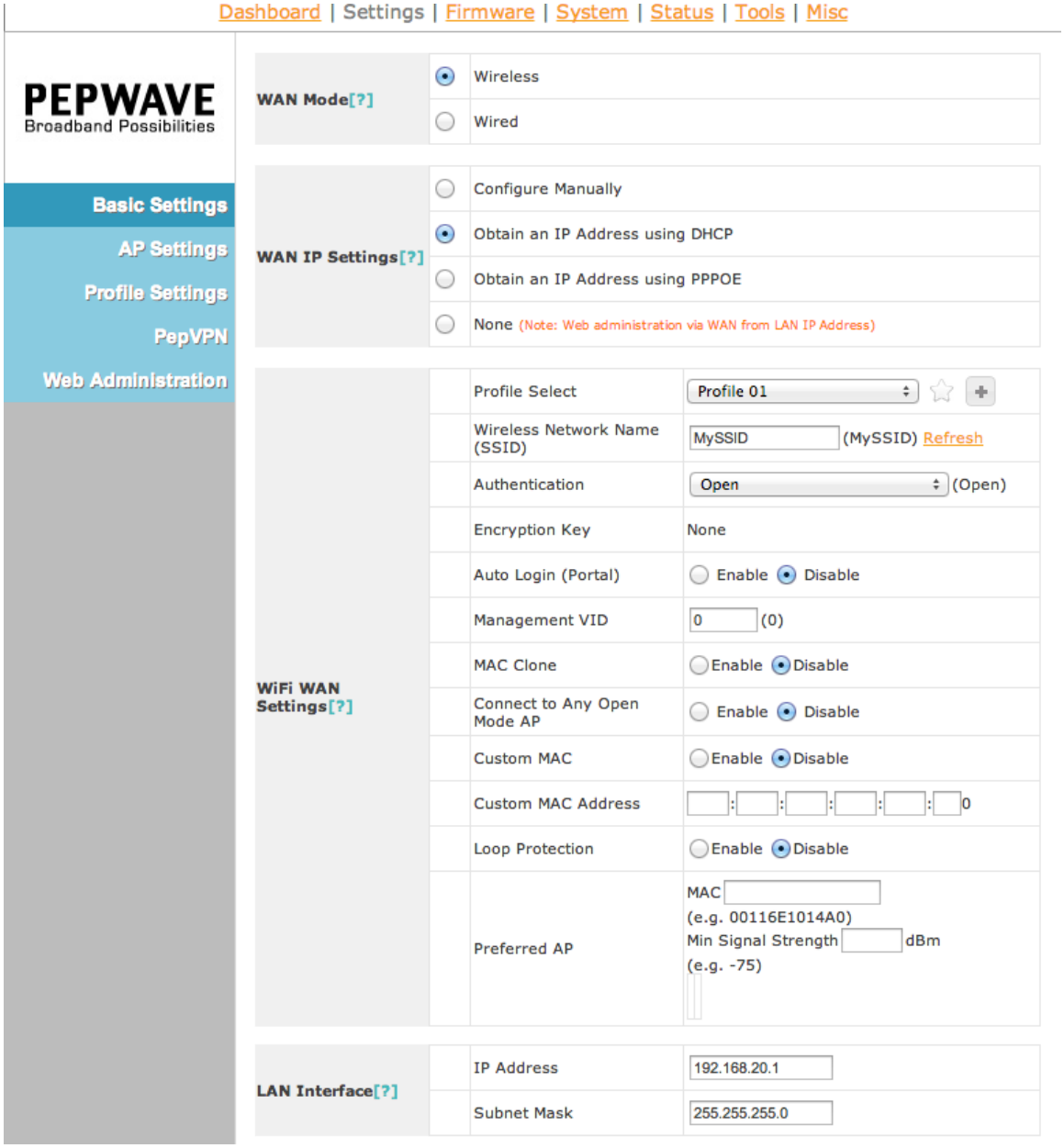


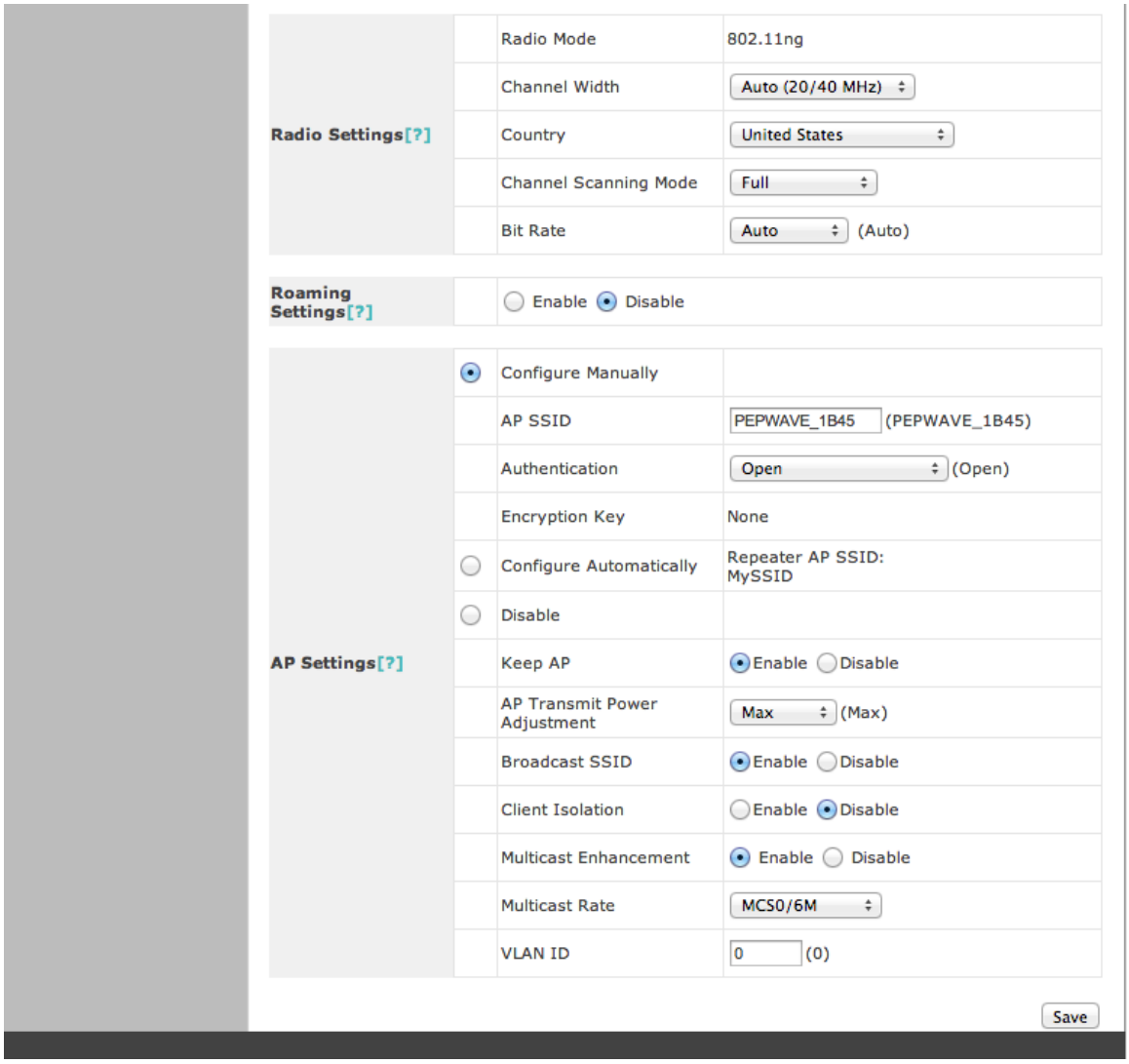
PEPWAVE
Broadband Possibilities

2. Basic Setup

Basic Setup

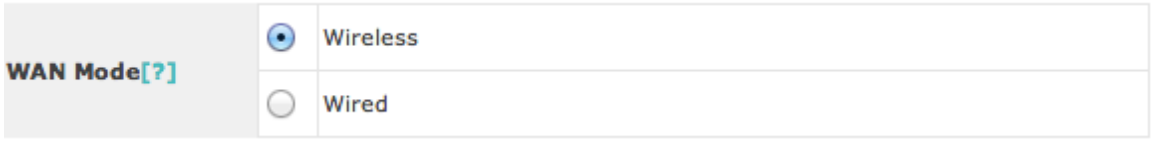
The **Basic Settings** page offers a variety of common settings to help you get your Device Connector up and running quickly. To access the **Basic Settings** page, click the **Settings** button on the **Dashboard** (or the **Settings** link found at the top of all pages besides the **Dashboard**), and then make sure the **Basic Settings** button on the right side of the next page is selected.





WAN Mode

To begin setting up the Device Connector in Wi-Fi mode, first make sure that the **Wireless** radio button, found under **WAN Mode**, is selected. To set up the Device Connector in wired mode, first make sure that the **Wired** radio button, found under **WAN Mode**, is selected.

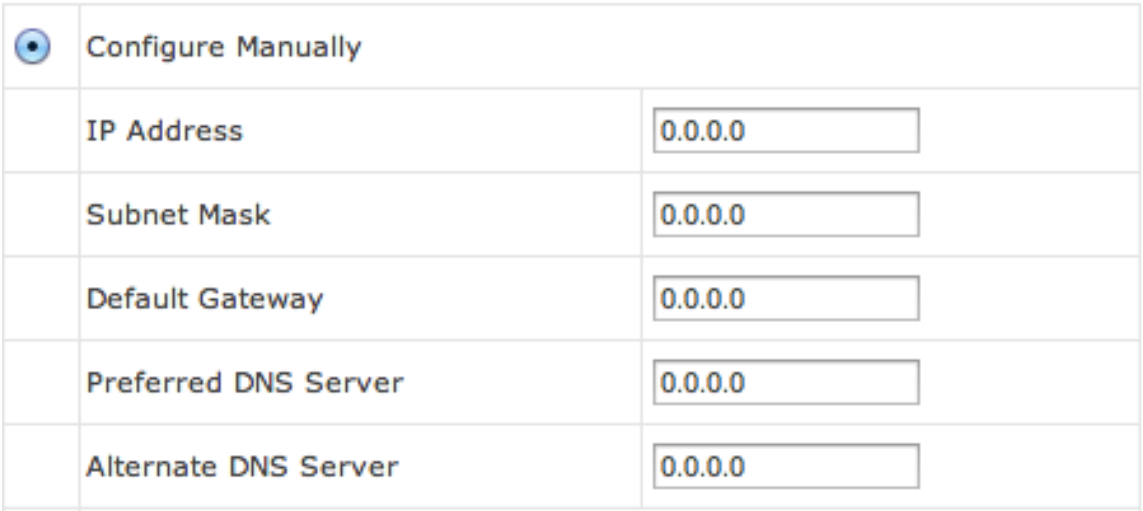


WAN IP Settings

Select one of the available options here to choose the method the Device Connector will use to connect to the WAN.

Configure Manually

Choose this option when assigning a static IP address to the Device Connector. In addition to specifying a static IP address and subnet mask, enter the IP address of your default gateway and preferred and alternate DNS server (if available).



Obtain an IP Address Using DHCP

To allow your network's DHCP server to assign an IP address to the Device Connector, select this option.

Obtain an IP Address Using PPPoE

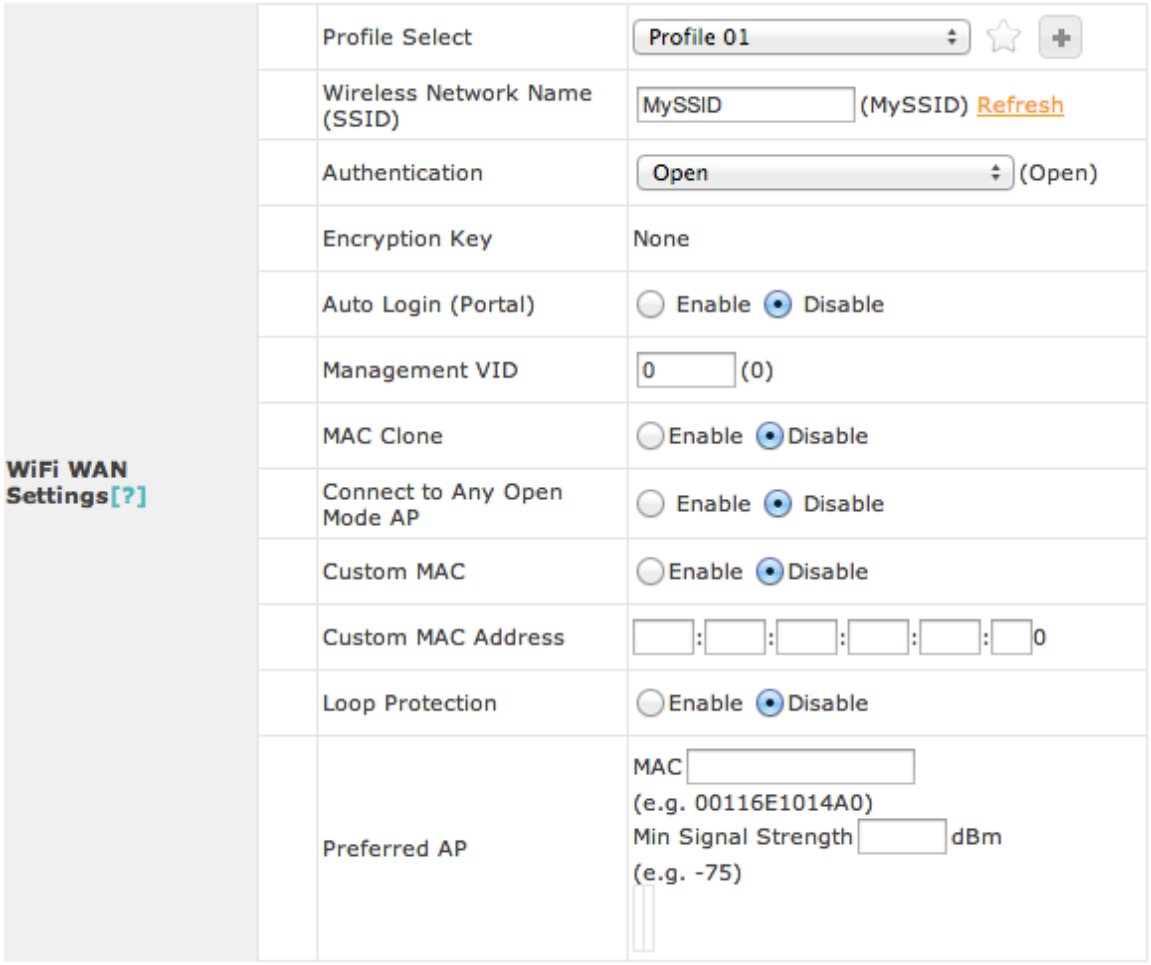
Select this option to connect the Device Connector to the network using PPPoE authentication. In addition to entering a user name and password used to access the service, specify a preferred and alternate DNS server (if available).

None

To administer the Device Connector over the WAN using a LAN IP address, select **None**.

Wi-Fi WAN Settings (Wi-Fi Mode Only)

Use the controls in this section to specify the settings the Device Connector will use to connect to the Wi-Fi network.



Profile Select

Once you've set up one or more Wi-Fi WAN connection profiles via the **Profile Settings** page, use this drop-down menu to select the profile the Device Connector will use to connect with other devices on the network. To add a connection profile, click the  button. To mark a profile as a favorite, click the  button.

Wireless Network Name (SSID)

Enter the SSID of the network to which you want to connect the Device Connector. To see a list of available networks, click inside this field. If the network you're looking for doesn't appear, click the **Refresh** link to update the list with the latest network changes. To connect to a displayed network, select it from this list.

Authentication

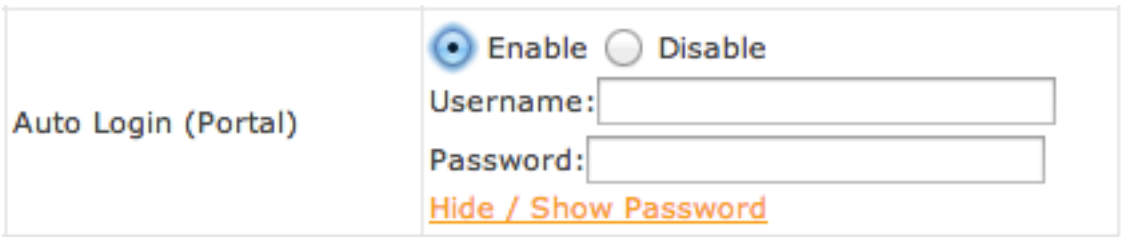
Choose the type of authentication used by the wireless network the Device Connector will login to. Available values include **Open**, **Static with WEP Key**, **802.1x with Dynamic WEP Key**, **WPA/WPA2-Enterprise**, and **WPA/WPA2-Personal**. If an SSID has been selected in the **Wireless Network Name (SSID)** field, the appropriate encryption type will be selected automatically.

Encryption Key

If the network the Device Connector will connect to uses encryption, enter the encryption key here. To toggle key visibility, click the **Hide / Show Encryption Key** link.

Auto Login (Portal)

Use this control to enable or disable automatic network login. If you choose to enable this setting, enter the username and password to be used for automatic logins. To toggle password visibility, click the **Hide / Show Password** link.



Management VID

To restrict VLAN management to a particular VLAN ID, change the default **Management VID** from **0** to the appropriate value. To allow management sessions without VLAN ID restrictions, leave **Management VID** set to the default value. Note that a **Management VID** value of **0** disables session tagging rather than tagging management sessions with **0**.

MAC Clone

If your WAN allows only a single active Internet connection, enable MAC address cloning using this control. When **MAC Clone** is enabled, the Device Connector will be assigned the same MAC address used to connect to the Internet, regardless of the Device Connector's actual MAC address.

Connect to Any Open Mode AP

When this option is enabled, the Device Connector will scan for unencrypted networks and automatically connect to the one with the strongest signal.

Custom MAC

Enable this option to assign a custom MAC address to the Device Connector using the **Custom MAC Address** field. Because enabling this option can cause the Device Connector to lose connectivity, it is recommended for advanced users only.

Custom MAC Address

If you have enabled **Custom MAC**, enter the desired MAC address here.

Loop Protection

Enable loop protection to prevent the Device Connector from connecting to an AP SSID, which could cause a signal loop and disrupt Internet access.

Preferred AP

To connect the Device Connector to a preferred access point automatically, enter the AP's MAC address here or click a link appearing below **APs with matching SSID** to fill the field. To specify a minimum signal strength to attempt a connection, set the desired strength using the **Min. Signal Strength** field.

LAN Interface

These settings are used to manage the connection between the Device Connector (public) and the LAN (private, protected) sides of the network.

IP Address

Here, you can set the the internal, or private, ID used to manage the Device Connector. Leaving this field set to the default value is recommended.

Subnet Mask

Use the subnet mask to specify how many computers the device will support. Leaving this field set to the default value is recommended.

Radio Settings

Use the settings in this section to manage the Device Connector's Wi-Fi radio settings. If you are connecting to a wired or cellular WAN, configure these settings according to your preferred Wi-Fi LAN settings. If you are connecting to a Wi-Fi WAN, choose settings that provide the maximum number of usable networks.

Radio Mode

Radio mode is set to 802.11ng, which is compatible with 802.11n networks and backward-compatible with 802.11bg networks.

Channel Width

Use the options here to set channel width for 802.11n bonding. Choosing **Auto (20/40 Mhz)** allows simultaneous use of both channel widths. If you require standard width channels only, choose **20 Mhz**.

Country

Choose your country from the drop-down menu to match frequencies and output power to values allowed in your area.

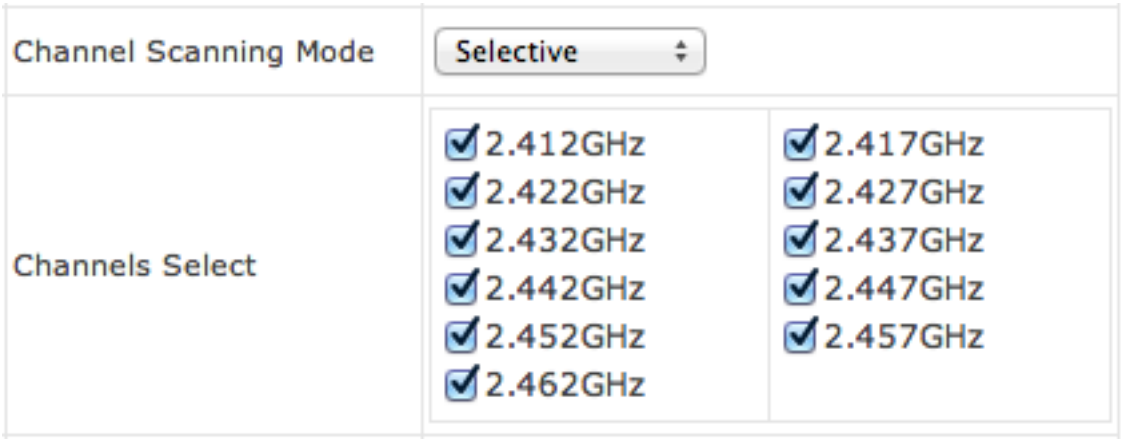
AP Channel (Wired Mode Only)

If you are operating the Device Connector in wired mode, select an AP channel from 1 to 11 using this drop-down menu.

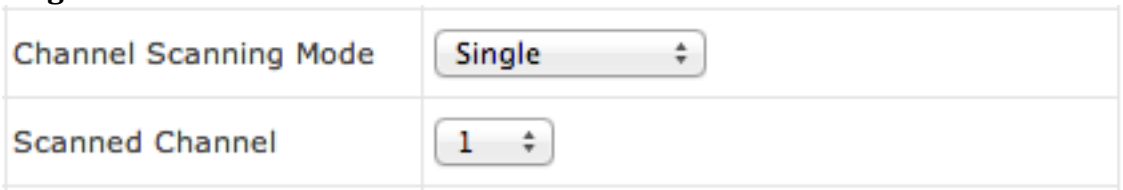
Channel Scanning Mode (Wi-Fi Mode Only)

Choose the channel scanning mode used by the Device Connector's radio. To scan all channels, select **Full**. Otherwise, restrict the range of channels to be scanned using:

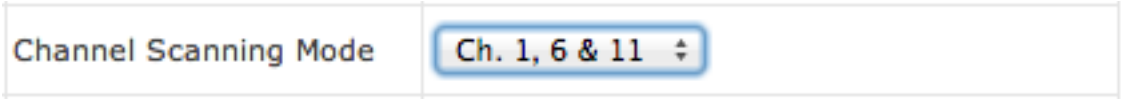
Selective



Single



or **Ch. 1, 6, & 11**

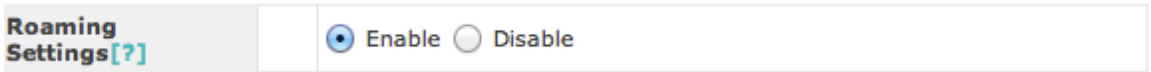


Bit Rate

Here, you can specify the bit rate used when sending packets. Unless you have a need to specify a particular rate, allowing the Device Connector to automatically negotiate the rate by selecting **Auto** from this drop-down menu is highly recommended.

Roaming Settings (Wi-Fi Mode Only)

The settings in this section determine the way roaming is handled when using the Wi-Fi WAN setting. When roaming is enabled, the Device Connector will periodically scan for a connection with a stronger signal but without disrupting the current connection. This behavior is particularly useful when the Device Connector can choose from multiple APs, as in many hotspots and other large area networks. Most home and home office networks, however, would not benefit from enabling roaming.



AP Settings

Use the options in this section to manage the local area Wi-Fi network that appliances connected to the Device Connector will connect to.

AP Settings[?]	◉	Configure Manually	
		AP SSID	PEPWAVE_1B45 (PEPWAVE_1B45)
		Authentication	Open (Open)
		Encryption Key	None
	○	Configure Automatically	Repeater AP SSID: MySSID
	○	Disable	
		Keep AP	◉ Enable ○ Disable
		AP Transmit Power Adjustment	Max (Max)
		Broadcast SSID	◉ Enable ○ Disable
		Client Isolation	○ Enable ◉ Disable
		Multicast Enhancement	◉ Enable ○ Disable
		Multicast Rate	MCS0/6M
		VLAN ID	0 (0)

Configure Manually

Select this option to manually specify AP SSID, authentication method, and encryption key. To clone these values so that the Wi-Fi WAN acts as a repeater, select **Configure Automatically**.

AP SSID

Enter the SSID of the Wi-Fi network to which connected appliances will connect.

Authentication

Choose the type of authentication used by local area Wi-Fi network. Available values include **Open**, **Static with WEP Key**, **802.1x with Dynamic WEP Key**, **WPA/WPA2-Enterprise**, and **WPA/WPA2-Personal**.

Encryption Key

If the local area Wi-Fi network uses encryption, enter the encryption key here. To toggle key visibility, click the **Hide / Show Encryption Key** link.

Configure Automatically (Wi-Fi Mode Only)

To clone the settings of the Wi-Fi WAN, select **Configure Automatically**.

Disable

To disable connections to the local area Wi-Fi network, select this option.

Keep AP (Wi-Fi Mode Only)

Select **Enable** to broadcast a Wi-Fi SSID even when no active connection is available. Because disabling this setting will result in having to configure the device via wired Ethernet, enabling this feature is highly recommended.

AP Transmit Power Adjustment

Select from **Low**, **Medium**, **High**, and **Max** to control the Wi-Fi AP's transmit power. Note that changing this setting does not affect the power of the connection to a Wi-Fi WAN.

Broadcast SSID

When this setting is disabled, clients must be manually configured to connect to the network. Enabling this setting is recommended.

Client Isolation

Enabling this feature prevents devices connected to the same AP SSID from communicating directly with one another. Enabling **Client Isolation** improves security, especially when allowing untrusted users to connect to the network.

Multicast Enhancement

When this setting is enabled, multicast packages are converted to unicast packages, improving multicast traffic performance in most cases.

Multicast Rate

If you have disabled **Multicast Enhancement**, the setting here will determine a fixed rate for multicast traffic. Changing this setting is recommended only for advanced users.

VLAN ID (Wi-Fi Mode Only)

If you are using virtual LANs, assign a VLAN ID here.

Once the above settings are correct, click **Save** to make them active.

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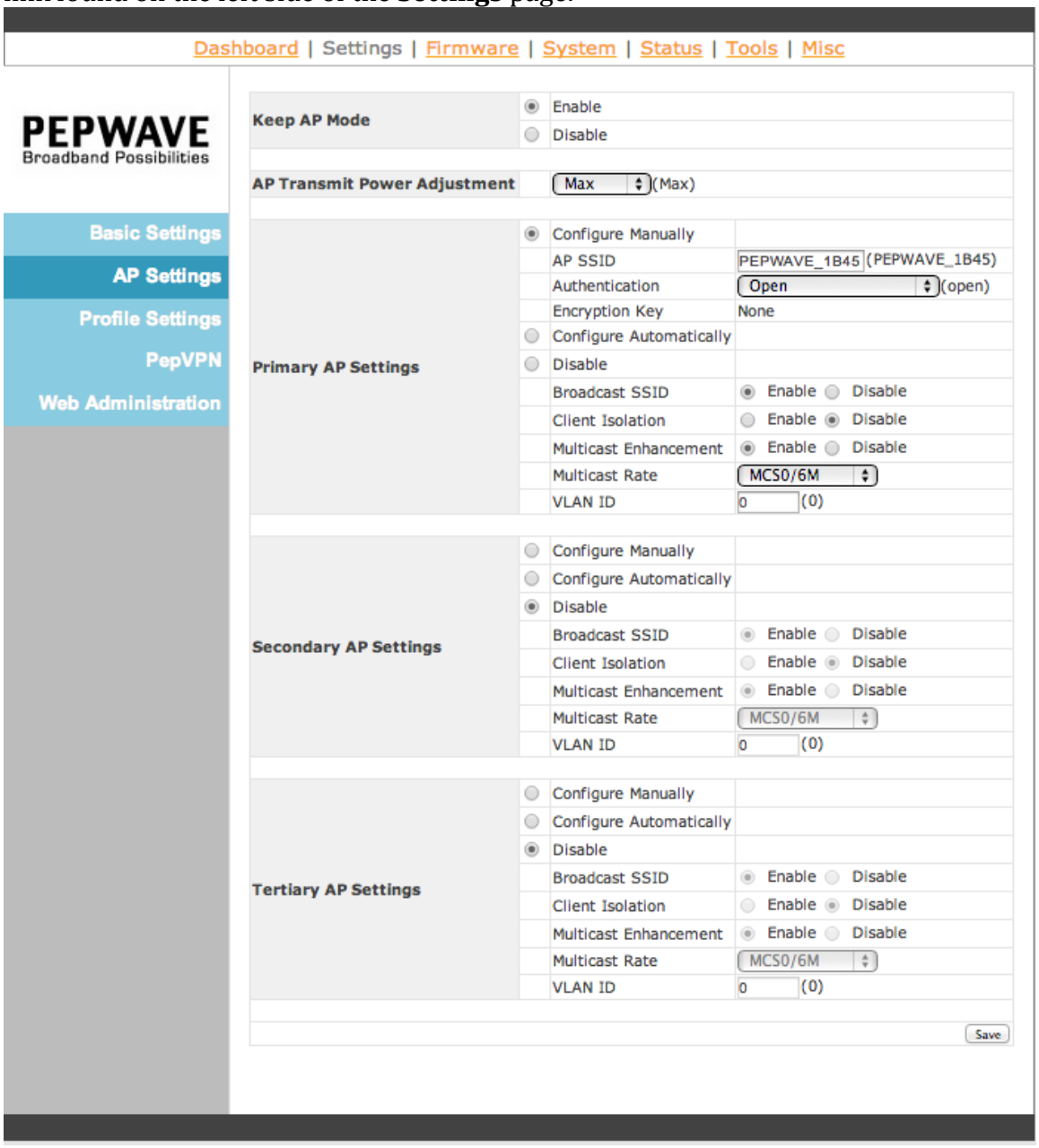
3. Advanced Settings

Advanced AP Settings

The **Advanced AP Settings** page gives you fine-grained control over primary, secondary, and tertiary AP configuration. To access this page, click the **AP Settings** link found on the left side of the **Settings** page.



Keep AP Mode (Wi-Fi Mode Only)

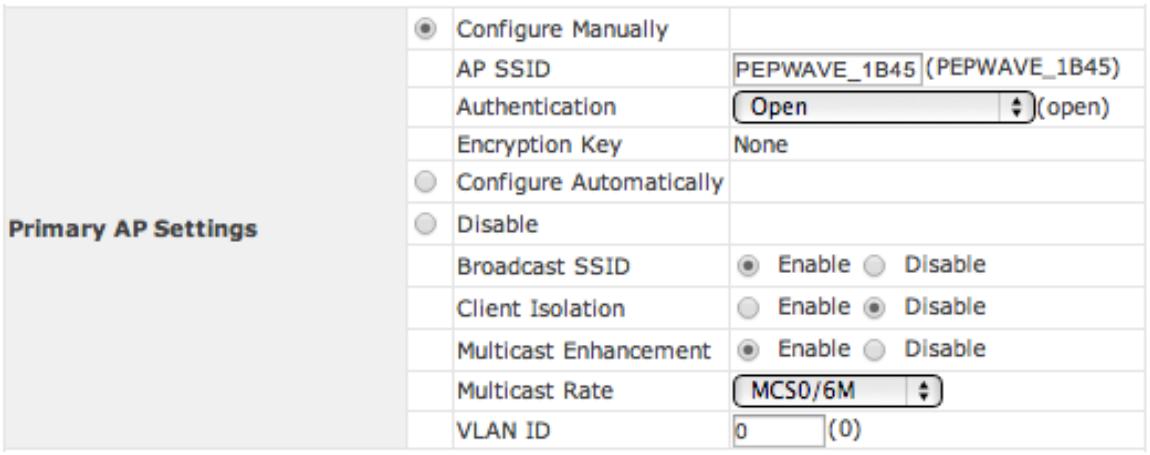
Select **Enable** to broadcast a Wi-Fi SSID even when no active connection is available. Because disabling this setting will result in having to configure the device via wired Ethernet, enabling this feature is highly recommended.

AP Transmit Power Adjustment

Select from **Low**, **Medium**, **High**, and **Max** to control the Wi-Fi AP's transmit power. Note that changing this setting does not affect the power of the connection to a Wi-Fi WAN.

Primary/Secondary/Tertiary AP Settings

Use the options in this section to manage the primary, secondary, and tertiary local area Wi-Fi networks that appliances connected to the Device Connector will connect to.



Configure Manually

Select this option to manually specify AP SSID, authentication method, and encryption key. To clone these values so that the Wi-Fi WAN acts as a repeater, select **Configure Automatically**.

AP SSID

Enter the SSID of the Wi-Fi network to which connected appliances will connect.

Authentication

Choose the type of authentication used by local area Wi-Fi network. Available values include **Open**, **Static with WEP Key**, **802.1x with Dynamic WEP Key**, **WPA/WPA2-Enterprise**, and **WPA/WPA2-Personal**.

Encryption Key

If the local area Wi-Fi network uses encryption, enter the encryption key here. To toggle key visibility, click the **Hide / Show Encryption Key** link.

Configure Automatically (Wi-Fi Only)

To clone the settings of the Wi-Fi WAN, select **Configure Automatically**.

Disable

To disable connections to the local area Wi-Fi network, select this option.

Broadcast SSID

When this setting is disabled, clients must be manually configured to connect to the network. Enabling this setting is recommended.

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Multicast Enhancement

When this setting is enabled, multicast packages are converted to unicast packages, improving multicast traffic performance in most cases.

Multicast Rate

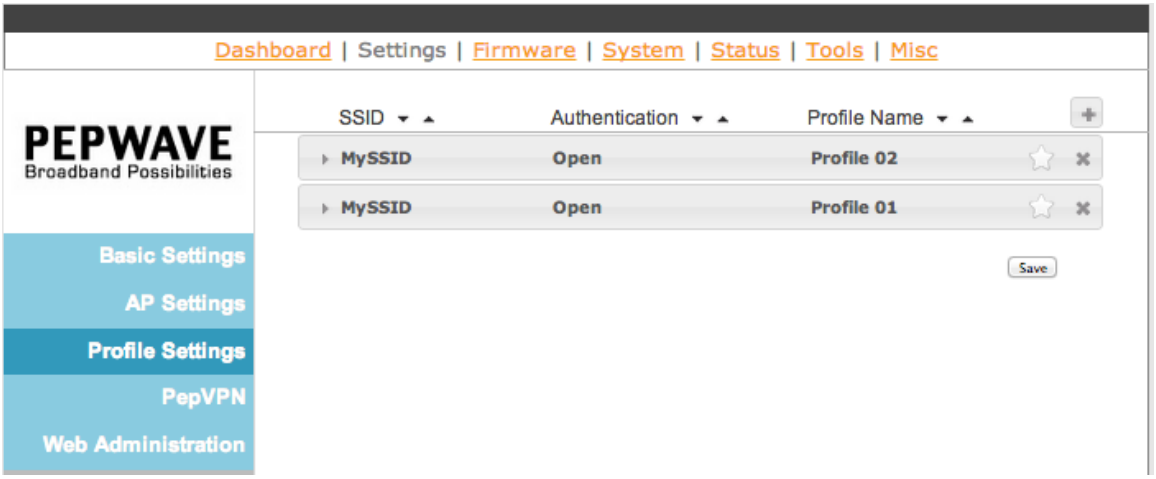
If you have disabled **Multicast Enhancement**, the setting here will determine a fixed rate for multicast traffic. Changing this setting is recommended only for advanced users.

VLAN ID (Wi-Fi Mode Only)

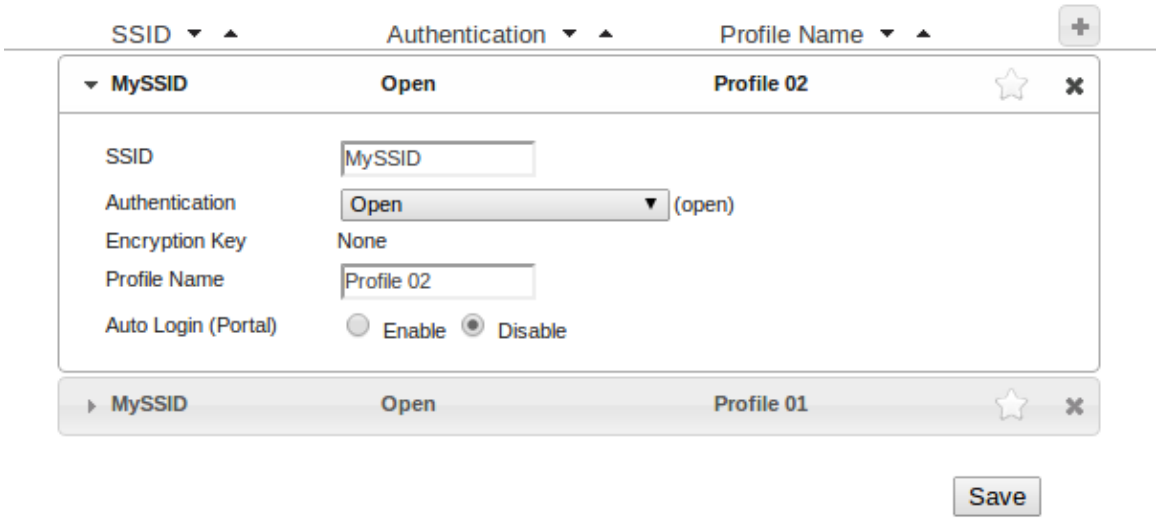
If you are using virtual LANs, assign a VLAN ID here.

Profile Settings (Wi-Fi Mode Only)

On the **Profile Settings** page, you can create separate AP profiles for easy management of various usage scenarios. To get started, click the **Profile Settings** link found on the left side of the **Settings** page. To add a new profile, click the button.



Once you've created a new, basic profile, click the down arrow next to the profile's name to begin customizing it.



SSID

Enter the SSID of the Wi-Fi network to which connected appliances will connect.

Authentication

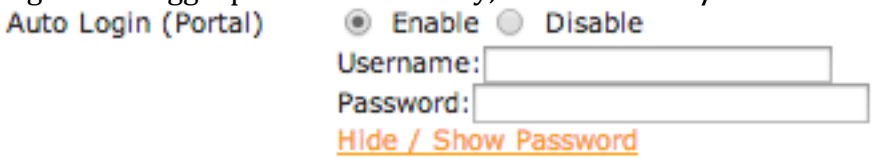
Choose the type of authentication used by the wireless network the Device Connector will login to. Available values include **Open**, **Static with WEP Key**, **802.1x with Dynamic WEP Key**, **WPA/WPA2-Enterprise**, and **WPA/WPA2-Personal**.

Profile Name

Enter a new name for the profile or accept the default name.

Auto Login (Portal)

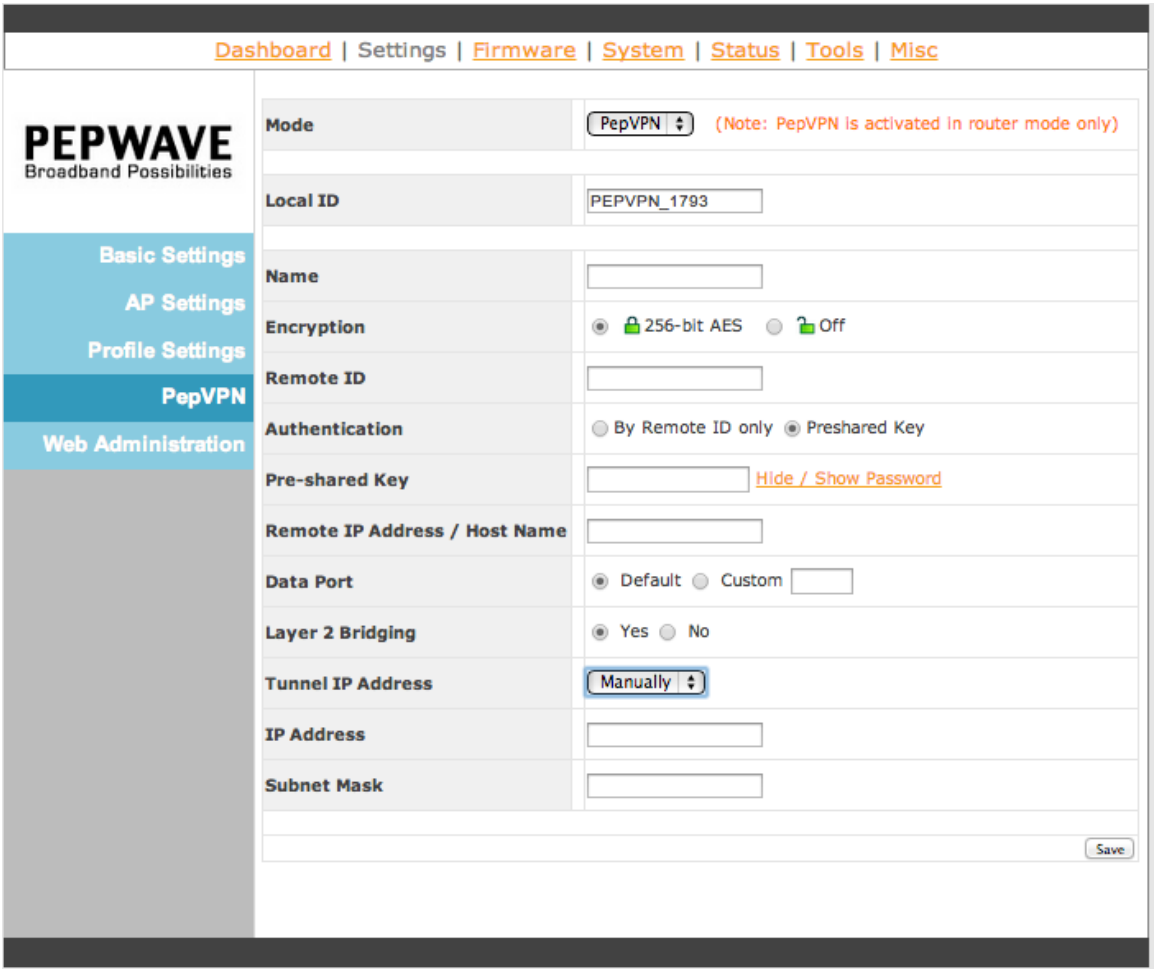
Use this control to enable or disable automatic network login. If you choose to enable this setting, enter the username and password to be used for automatic logins. To toggle password visibility, click the **Hide / Show Password** link.



Once you've correctly set up your AP profile, click **Save** to store the profile. To delete a profile, click the ✖ button. To make a profile a favorite, click ☆. If you'd like to sort the profile list by SSID, authentication type, or profile name, click the up or down arrows next to the appropriate column heading.

PepVPN Settings

PepVPN allows you to easily establish a secure VPN tunnel over any WAN link. To set up PepVPN for use with the Device Connector, first click the **PepVPN** button found on the left side of the **Settings** page. To enable PepVPN, select **PepVPN** from the **Mode** drop-down menu found at the top of the PepVPN page.



Note that PepVPN can be used only when the Device Connector is in router mode. To set up router mode, see **Changing the Device Connector's Operating Mode**.

Local ID

To allow a peer to identify the Device Connector over PepVPN, enter a **Local ID** for this connection.

Name

Enter a name for the PepVPN connection in this field.

Encryption

Choose either **256-bit AES** encryption for all VPN traffic or set encryption to **Off**. Encrypting VPN traffic is highly recommended.

RemoteID

To allow the Device Connector to identify a PepVPN peer, enter a **Remote ID** here.

Authentication

Select a method for authenticating VPN clients. Available values are **By Remote Id Only** and **Preshared Key**.

Remote IP Address / Host Name

When connecting to remote PepVPN peers using a serial number, enter that number here.

Data Port

Enter a custom outgoing UDP data port from 1 to 65535 or select **Default** to use port 4500. When port 4500 is unavailable or the remote peer's firmware version is 5.3 or lower, the outgoing UDP data port defaults to 32015.

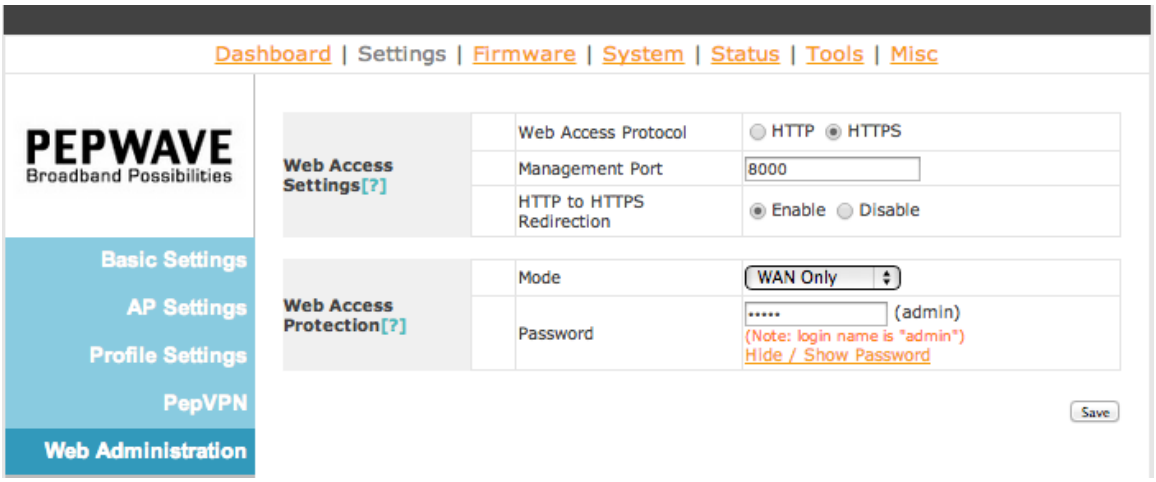
Layer 2 Bridging

To enable Layer 2 bridging, select **Yes**, and then select **None**, **Manually**, or **DHCP** from the **Tunnel IP Address** drop-down menu. If you're configuring a manual tunnel IP address, enter the details in the **IP Address** and **Subnet Mask** fields.

Once you've correctly set up PepVPN, click **Save** to store your configuration.

Web Administration Settings

On the **Web Administration** page, you can specify how administrators can access Device Connector settings remotely, as well as configure remote access security. To view or change these settings, click the **Web Administration** link found on the left side of the **Settings** page.



Web Access Settings

Web Access Protocol

Select standard **HTTP** or secure **HTTPS** as the protocol used when accessing the Device Connector. Unless using HTTP is required by your network configuration, HTTPS is recommended.

Management Port

Enter the port to use for remote management.

HTTP to HTTPS Redirection

To automatically redirect HTTP remote management session requests to HTTPS, select **Enable**.

Web Access Protection

Mode

Choose **WAN Only** to allow remote management via WAN but not via LAN. Choose WAN and LAN to allow remote management from any location. To disable Web access protection, select **None** (not recommended).

Password

If remote management access requires a password, enter it here. To toggle password visibility, click the **Hide / Show Password** link. Note that the username used for all remote management sessions is **admin**.

Once you've correctly configured remote management access, click **Save** to store your settings.

PEPWAVE
Broadband Possibilities

4. Troubleshooting and Maintenance

Checking Device Status

To see the status of WAN connections, PepVPN sessions, Ethernet connections, and more, click the **Status** link at the top of any page.

Scanned AP (Wi-Fi Mode Only)

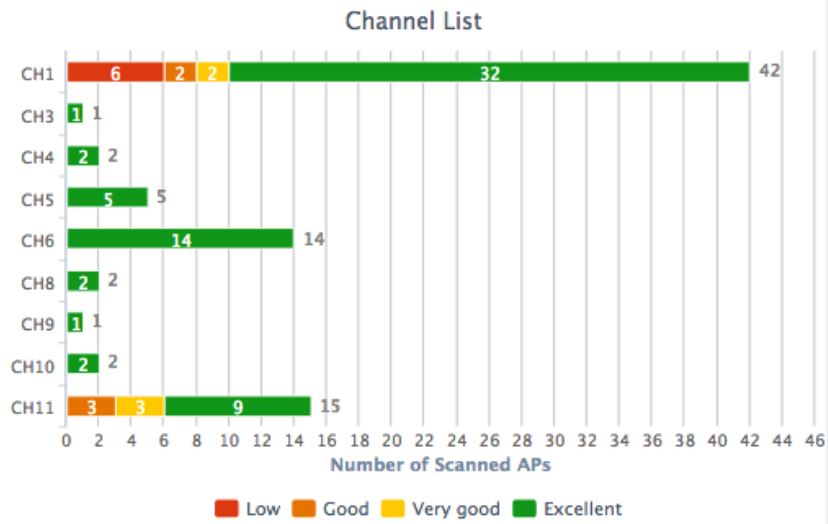
Click the **Scanned AP** button found on the left side of the page for details on all APs scanned by the Device Connector.

PEPWAVE
Broadband Possibilities

Scanned AP
WAN Connection
PepVPN
Ethernet
Client

Firmware Version:	1.0.22 (build:1183)
Hardware Version:	1.0
Model:	Device Connector (Bridge)
Serial Number:	2830-7AC2-1793
LAN MAC Address:	00:1A:DD:B8:1B:40
WAN MAC Address:	00:1A:DD:B8:1B:44
Supported Modes:	802.11b/g/n
Connection Uptime:	0
System Time:	Fri, 09 Aug 2013 10:12:37 GMT

Scanned APs: ○ Show [MySSID] only ◉ Show all access points



Display 25 APs Search:

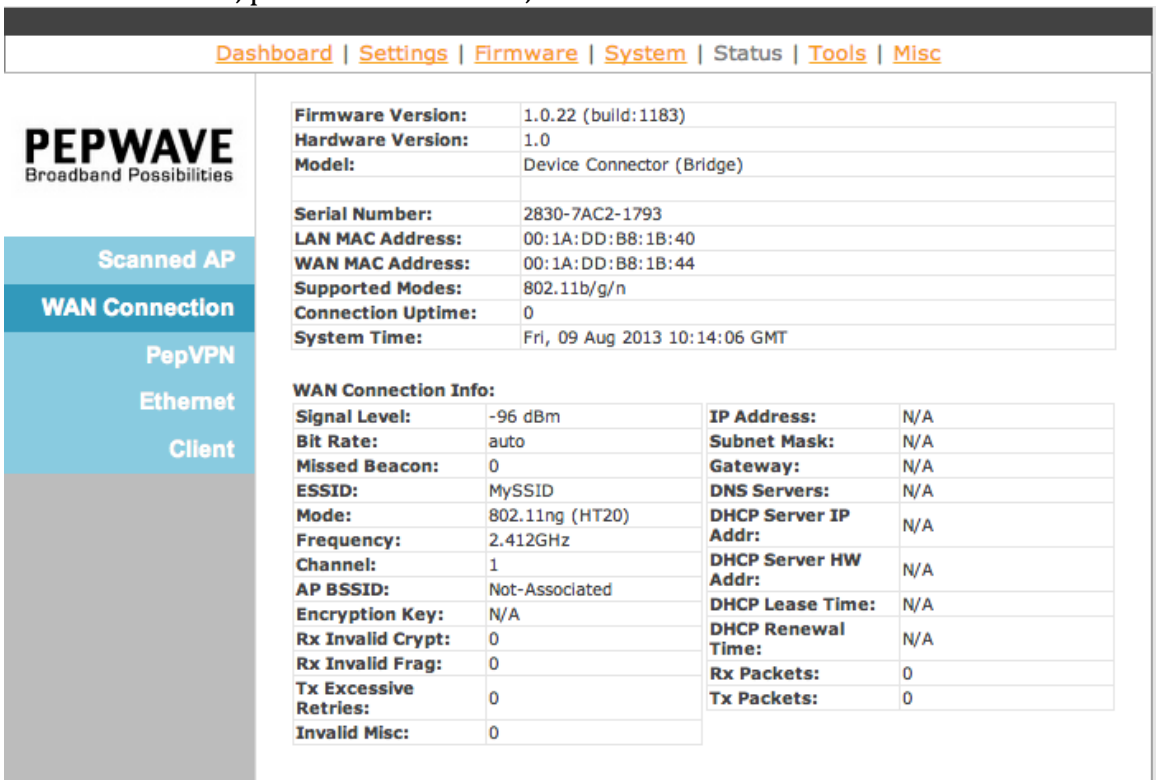
ESSID	BSSID	Ch.	Signal Level	Encryption	Radio Mode
	10:56:ca:08:ab:02	5	-71	WPA-Enterprise	802.11ng
	00:1a:1e:f3:0e:41	6	-70	Open	802.11g
	00:1a:dd:c5:46:05	8	-51	Open	802.11ng
!CAP_CAP_CAP	00:1a:dd:b6:a3:21	11	-65	WPA-Personal	802.11ng
!CAP_CAP_CAP_88	00:1a:dd:b6:a3:22	11	-65	WPA-Personal	802.11ng
!T4B118	10:56:ca:08:ab:01	5	-72	WPA-Personal	802.11ng
!T4SOHO_BLACK	00:1a:dd:c4:cc:c6	5	-56	Open	802.11ng
!T4SOHO_WHITE	00:1a:dd:c4:cc:c7	5	-58	Open	802.11ng
01CE	00:1a:dd:bb:29:e9	1	-62	WPA-Personal	802.11ng
:-)	00:1a:dd:c2:31:e5	1	-64	WPA-Personal	802.11ng
BM_OPEN	00:1a:dd:b9:75:a4	1	-44	Open	802.11ng
BM_TEST	00:1a:dd:b9:75:a1	1	-43	WEP	802.11g
BM_WEP	00:1a:dd:b9:75:a2	1	-43	WEP	802.11g
BM_WPA	00:1a:dd:b9:75:a5	1	-43	WPA-Personal	802.11ng
BM_WPAENT	00:1a:dd:b9:75:a3	1	-45	WPA-Enterprise	802.11ng
BR1-167	00:1a:dd:c5:0d:44	1	-55	Open	802.11ng
cantona_2g	00:1a:dd:cb:08:41	1	-72	Open	802.11ng
DE1F	00:1a:dd:bd:1e:47	1	-92	Open	802.11ng
G203_test	28:c6:8e:1e:c7:a0	11	-51	WPA-Personal	802.11ng
G505_test	00:1a:dd:c2:08:61	1	-76	WPA-Personal	802.11ng
G505_test2	00:1a:dd:c2:08:62	1	-75	WPA-Personal	802.11ng
HW-BLONE-2.4g	10:56:ca:09:0b:b8	4	-67	WPA-Personal	802.11ng
marco_ap1_0000000000000000000001	00:1a:dd:bd:73:e2	1	-87	WPA-Personal	802.11ng
marco_ap1_1	00:1a:dd:bd:73:e1	1	-87	WPA-Personal	802.11g
marco_single_1	00:1a:dd:bb:09:c1	6	-57	WPA-Personal	802.11ng

Showing 1 to 25 of 84 scanned APs

First Previous 1 2 3 4 Next Last

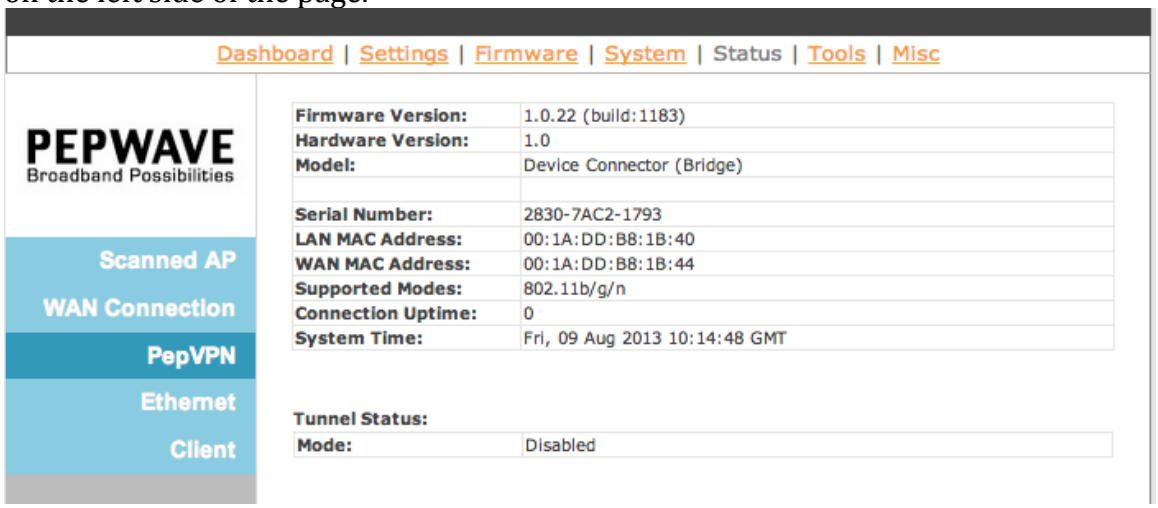
WAN Connection

Click the **WAN Connection** button found on the left side of the page for details on device addresses, packet transmission, and more.



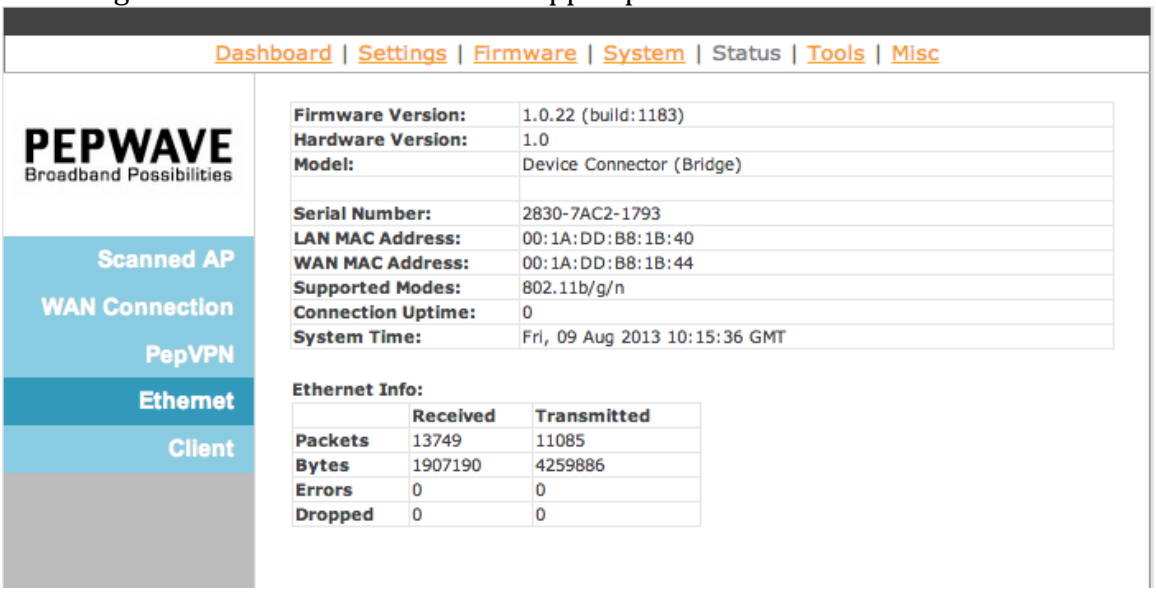
PepVPN

To review PepVPN uptime, tunnel status, and more, click the **PepVPN** button found on the left side of the page.



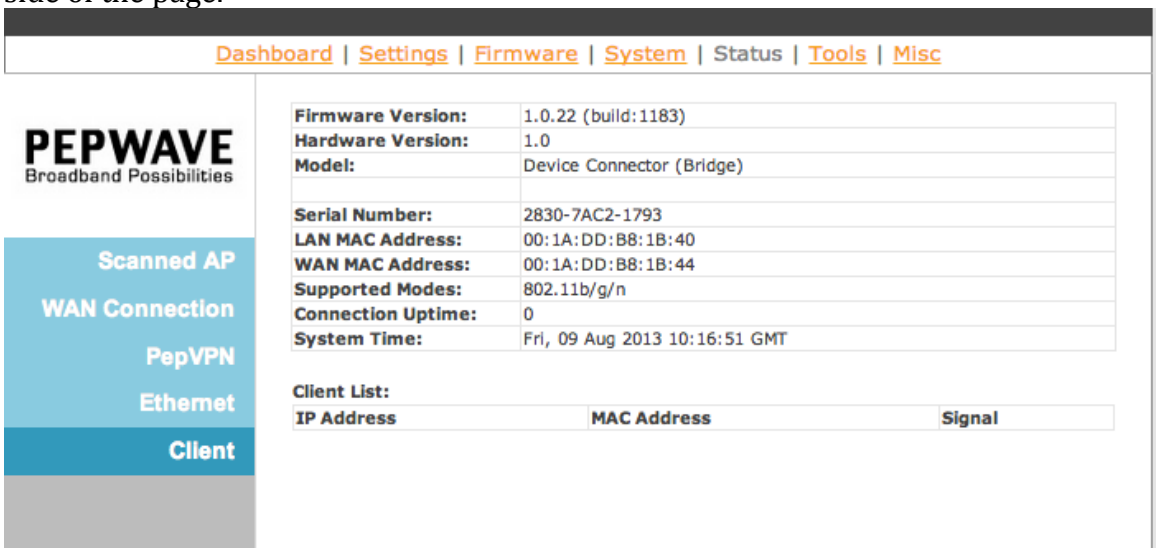
Ethernet

On the **Ethernet** page, you can find important details about Ethernet connections, including information on errors and dropped packets.



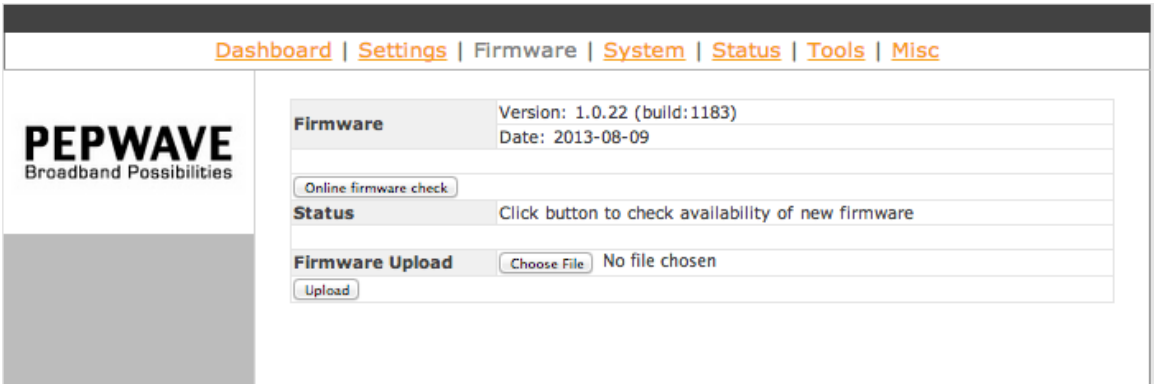
Client

To see a list of connected network clients, click the **Client** button found on the left side of the page.



Checking and Updating the Firmware Version

Click the **Firmware** link found at the top of any page for details on the current firmware version, as well as tools that allow you to check for and upload updated firmware.



Checking for Firmware Updates Online

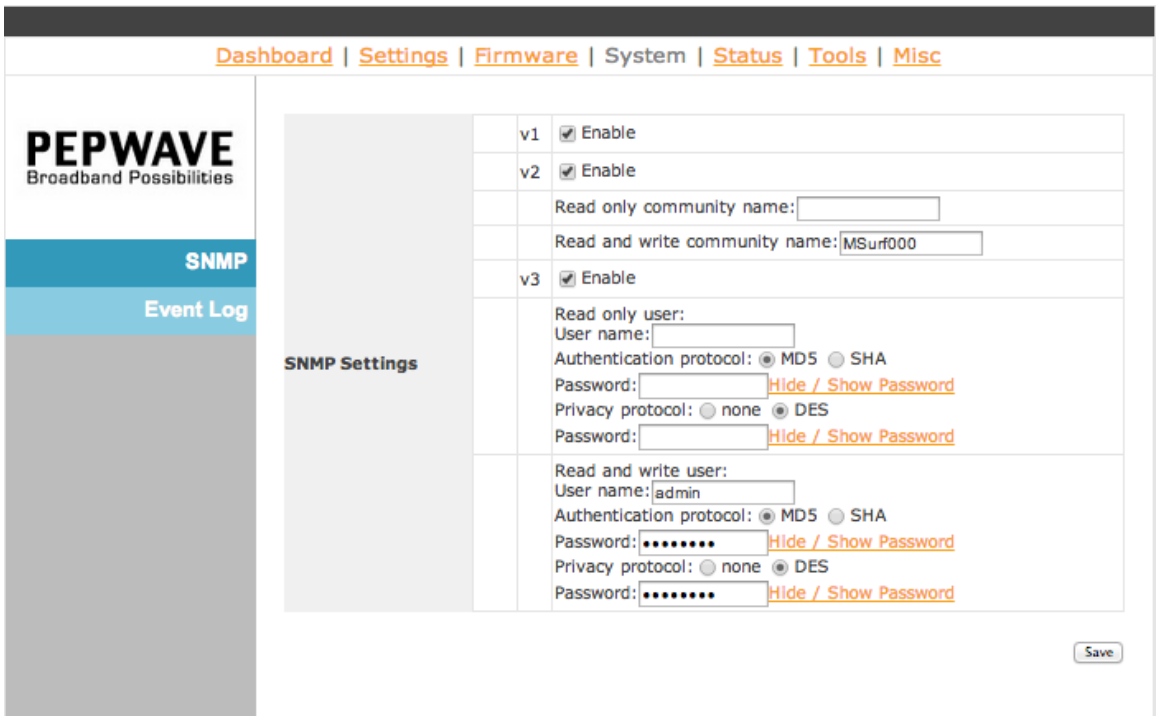
To check for updated firmware, click the **Online firmware check** button. If updated firmware is available, you'll find details in the **Status** bar located under the **Online firmware check** button.

Manually Uploading Firmware Updates

To manually upload a firmware update, select the file by clicking the **Choose File** button, and then highlighting the file stored on your system. To upload the selected file, click the **Upload** button.

Enabling SNMP

The Simple Network Managmement Protocol (SNMP) can be a helpful tool to monitor your Device Connector's operation and detect conditions that need to be addressed by a network administrator. To begin setting up SNMP for use with your Device Connector, first click the **System** link found at the top of any page, and then click the **SNMP** button found on the left side of the **System** page. Note that enabling SNMP increases system overhead, so it's best to use this feature only when troubleshooting.



SNMP Settings

v1, v2, v3

To enable SNMP v1, v2, and/or v3, which offer various levels of network management functionality, check the appropriate box(es).

Read only community name (v2 only)

To restrict SNMP read permission to a particular group of SNMP devices, enter a case-sensitive name, which acts as a shared password, in the **Read only community name** field. You can also leave this field blank, which sets a default value of **Public**.

Read and write community name (v2 only)

To assign read and write permissions to a particular group of SNMP devices only, enter a case-sensitive name, which acts as a shared password, in the **Read and write community name** field. You can also leave this field blank, which sets a default value of **Public**.

Read only user (v3 only)

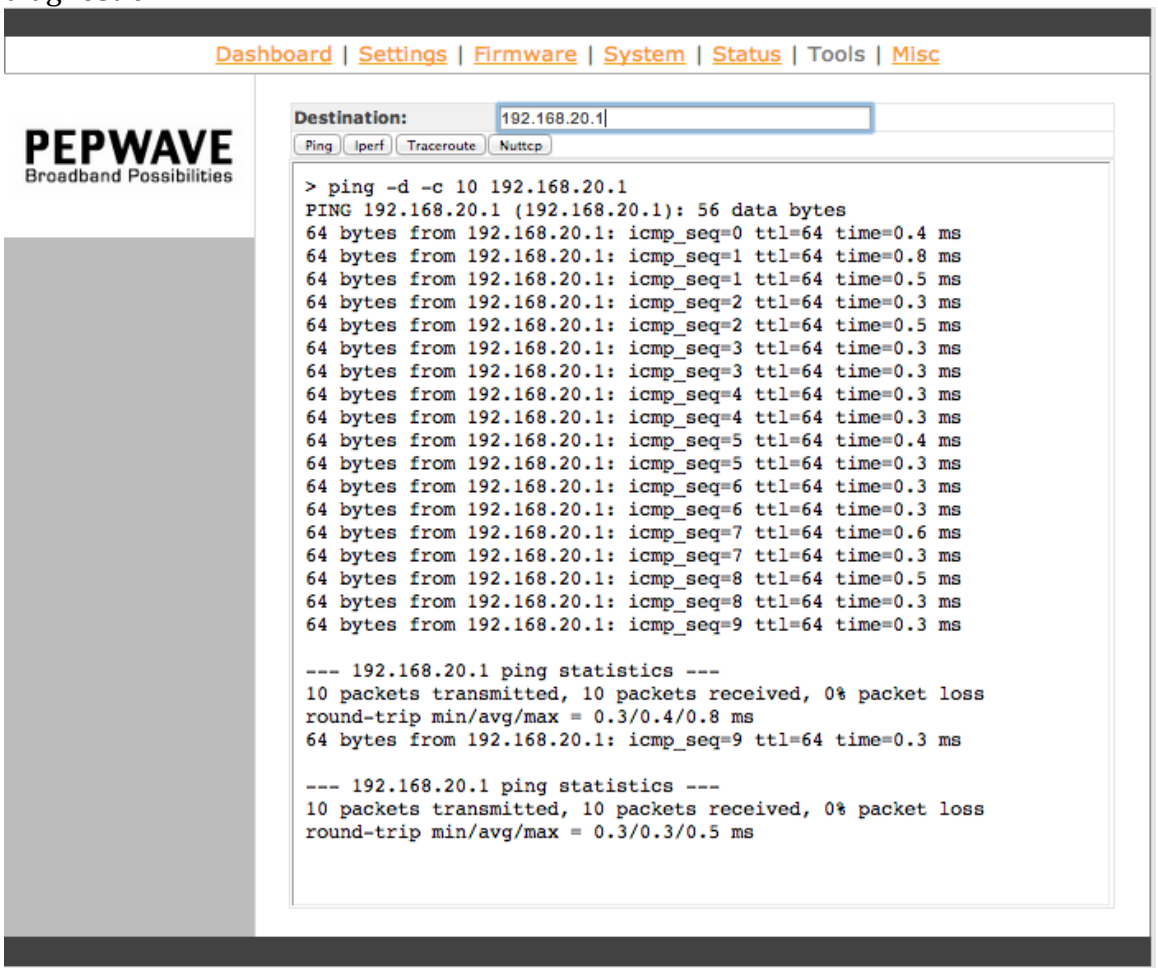
To configure read permission for SNMP v3, enter the appropriate user name and passwords for the security protocols in use on your network.

Read and write user (v3 only)

To configure read permission for SNMP v3, enter the appropriate user name and passwords for the security protocols in use on your network.

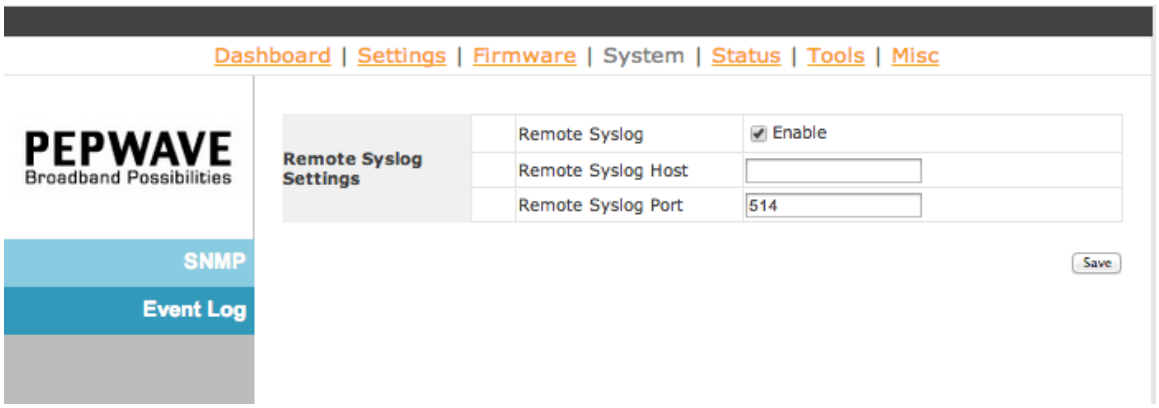
Using the Included Diagnostic Tools

To quickly display network settings and help diagnose network problems, you can access a number of common diagnostic tools without leaving the Device Connector Web Admin Interface. To access these tools, click the **Tools** link found at the top of any page. Next, enter the appropriate network address in the **Destination** field, and then click either the **Ping**, **lperf**, **Traceroute**, or **Nutttcp** button to run the selected diagnostic.



Enabling Remote Event Logs

To set up remote event logging, first click the **System** link found at the top of any page, and then click the **Event Log** button found on the left side of the **System** page. Note that enabling logging increases system overhead, so it's best to use this feature only when troubleshooting.



Remote Syslog Settings

Remote Syslog

To turn on remote event logging and begin sending device event logs to a particular remote host, check **Enable**.

Remote Syslog Host

Enter the IP address of the remote system to which event logs should be sent.

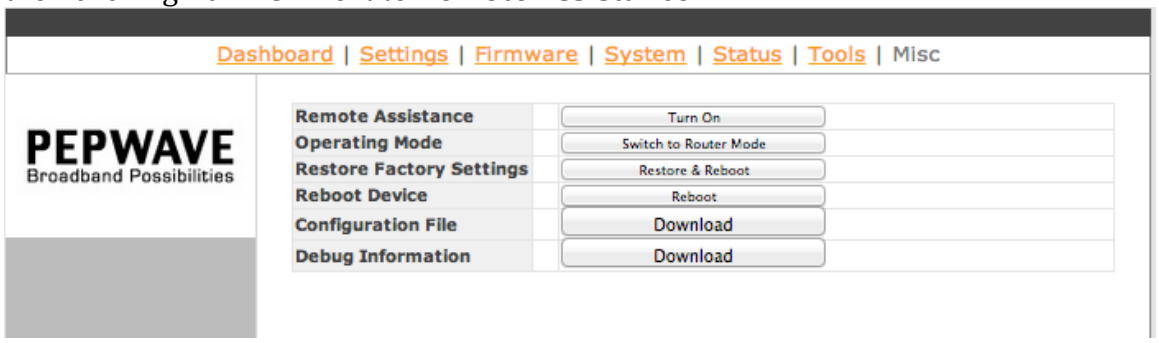
Remote Syslog Port

Enter the desired port number to be used by the remote system to receive event logs.

Once you've correctly configured remote syslog settings, click **Save** to store them.

Turning on Remote Assistance

To allow a remote troubleshooter to help set up and manage the Device Connector, enable remote assistance by clicking the **Misc** link found at the top of any page and then clicking **Turn On** next to **Remote Assistance**.



Changing the Device Connector's Operating Mode

To toggle between router and bridge mode, click the **Misc** link found at the top of any page, and then click **Switch to Bridge Mode** or **Switch to Router Mode**.

Restoring Factory Settings

To restore the Device Connector to factory settings, click the **Misc** link found at the top of any page, and then click **Restore and Reboot**.

Rebooting the Device Connector

To reboot the Device Connector and clear its memory contents, click the **Misc** link found at the top of any page, and then click **Reboot**.

Downloading Configuration and Debug Information

To help with troubleshooting, you can download the Device Connector's configuration files, as well as a debug log. To download these files to your system, click the **Misc** link found at the top of any page, and then click **Download** next to **Configuration File** and/or **Debug Information**.

5. Appendix

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

1) Reorient or relocate the receiving antenna.
2) Increase the separation between the equipment and receiver.
3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4) Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE: FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Taiwan NCC Statement

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