4ipnet®
for your IP network

Quick Installation Guide

EAP300 V1.00

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Preface

4ipnet EAP300 is a high-end 802.11n/a/b/g dual-band MIMO Access Point (AP) with the best price/ performance for business and industrial applications and is compliant with the latest industrial wireless security standards that are required in the tightly secured enterprise network environments. EAP300 makes the wireless communication fast, secure and easy. It supports business grade security such as 802.1X, and Wi-Fi Protected Access (WPA and WPA2). By pushing a purposely built button, the 4ipnet WES feature makes it easy to bridge wireless links of multiple EAP300s for forming wider wireless network coverage. EAP300 also features multiple ESSIDs with VLAN tags; one EAP300 can emulate up to eight Virtual APs, great for enterprise applications, such as separating the traffics of different departments using different ESSIDs. The PoE LAN port can receive power from Power over Ethernet (PoE) device. Its metal case is IP50 anti-dust compliant, which means that EAP300 is well suited to WLAN deployment in industrial environments.

This Quick Installation Guide provides instructions and reference materials for getting started with 4ipnet EAP300.

Package Contents

1. EAP300 x 1
2. Quick Installation Guide x 1
3. CD-ROM (with User's Manual and QIG) x 1
4. Power cord x 1
5. Power Adapter (DC 12V) x 1
6. Antenna x 3

It is recommended to keep the original packing material for possible future shipment when repair or maintenance is required. Any returned product should be packed in its original packaging to prevent damage during delivery.

System Overview

Connector Panel

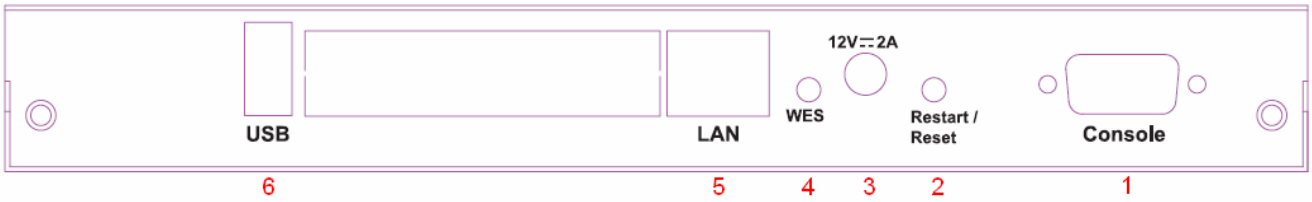


Figure 1 EAP300 Connector Panel

1	**Console**	Attach the serial cable here.
2	**Restart/Reset Button**	Press once to restart the system; Press and hold for more than 5 seconds to reset to factory default.
3	**12 ⎓ 2A**	Attach the power adapter here.
4	**WES Button**	Press to start running WES process.
5	**LAN**	Attach the Ethernet cable here for connecting to wired local network,
6	**USB**	For future use.

Antenna Panel

Figure 2 EAP300 Antenna Panel

Antenna Connector:	Attach the antennas here.

LED Panel

Figure 3 EAP300 LED Panel

1		LED ON indicates power on; OFF indicates power off.
2		LED OFF indicates RF is not ready; ON indicates RF is ready; CLINKING indicates transmitting/receiving data.
3		LED ON indicates Ethernet cable connected; OFF indicates no connection.
4		For future use.
5		To indicate WES status.

	Master	Slave
WES Start	LED (Green) OFF and then BLINKING SLOWLY	LED (Green) OFF and then BLINKING QUICKLY
WES Negotiate	BLINKING NORMALLY	BLINKING NORMALLY
WES Negotiate Timeout	LED (Yellow) ON	LED (Yellow) ON
WES Success	LED (Green) ON	LED (Green) ON
WES Fail	LED (Red) ON	LED (Red) ON

Hardware Installation

Please follow the steps mentioned below to install the hardware of EAP300:

1. **Place the EAP300 at a best location.**
   The best location for EAP300 is usually at the center of your wireless network.
2. **Connect EAP300 to your network device.**
   Connect one end of the Ethernet cable to the LAN port of EAP300 and the other end of the cable to a switch, a router or a hub. EAP300 is then connected to your existing wired LAN network.
3. **There are two ways to supply power over to EAP300.**
   (a) Connect the **DC power adapter** to the EAP300 power socket.

   Please only use the power adapter supplied with the EAP300 package. Using a different power adapter may damage this system.

   (b) EAP300 LAN port is capable of transmitting DC currents. Connect an IEEE 802.3af-compliant PSE device, e.g. a PoE-switch, to the LAN port of EAP300 by the Ethernet cable.

Now, the Hardware Installation is completed.

To double verify the wired connection between EAP300 and your switch/router/hub, please check the LED status indication of these network devices.

Getting Started

4ipnet EAP300 supports web-based configuration. Upon the completion of hardware installation, EAP300 can be configured through a PC by using its web browser such as Mozilla Firefox 2.0 or Internet Explorer version 6.0 and above.

The default values of LAN IP address and subnet mask of EAP300 are:

IP Address: ***192.168.1.1***

Subnet Mask: ***255.255.255.0***

Steps:

1. To access the web management interface, connect the administrator PC to the LAN port of EAP300 via an Ethernet cable. Then, set a static IP address on the same subnet mask as EAP300 in TCP/IP of your PC, such as the following example:

   IP Address: 192.168.1.100

   Subnet Mask: 255.255.255.0

2. Launch the web browser on your PC by entering the IP address of EAP300 (**http://192.168.1.1**) at the address field, and then press ***Enter***.

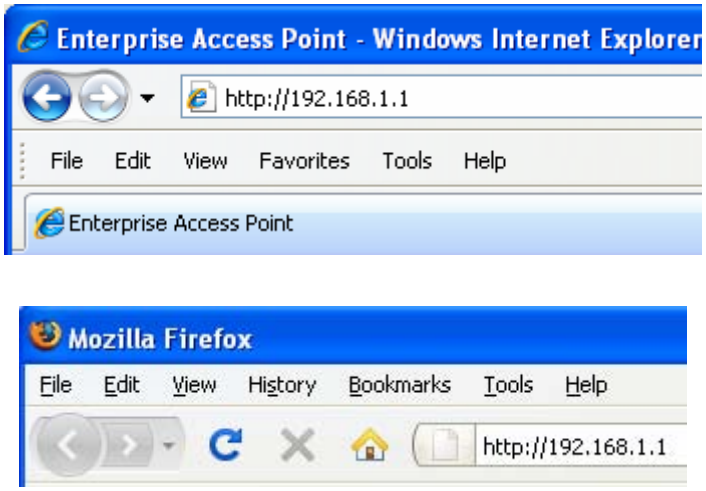
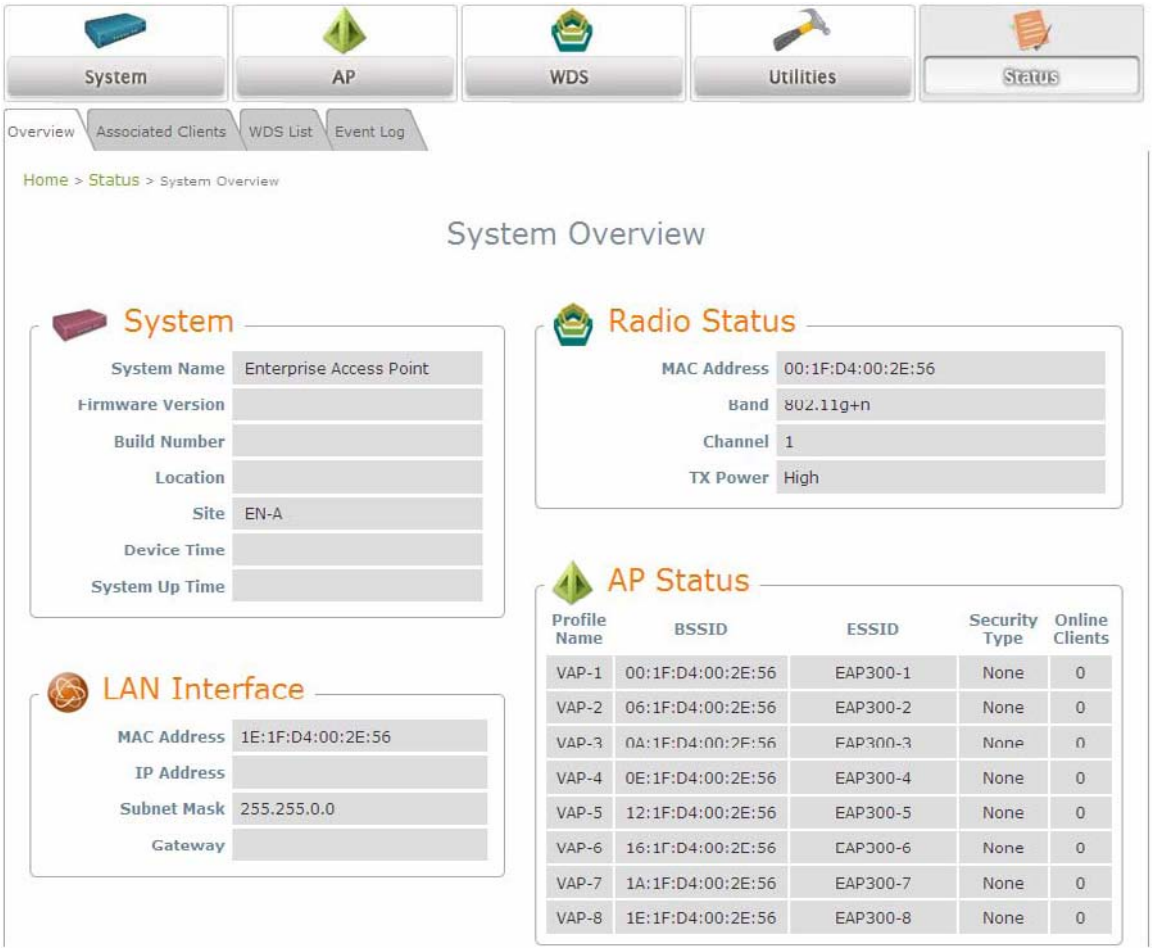


Figure 4 Example of entering EAP300'sdefault IP Address via a web browser

3. The following Admin Login Page will appear. Enter **"admin"** for both the *Username* and *Password* fields, and then click ***Login***.

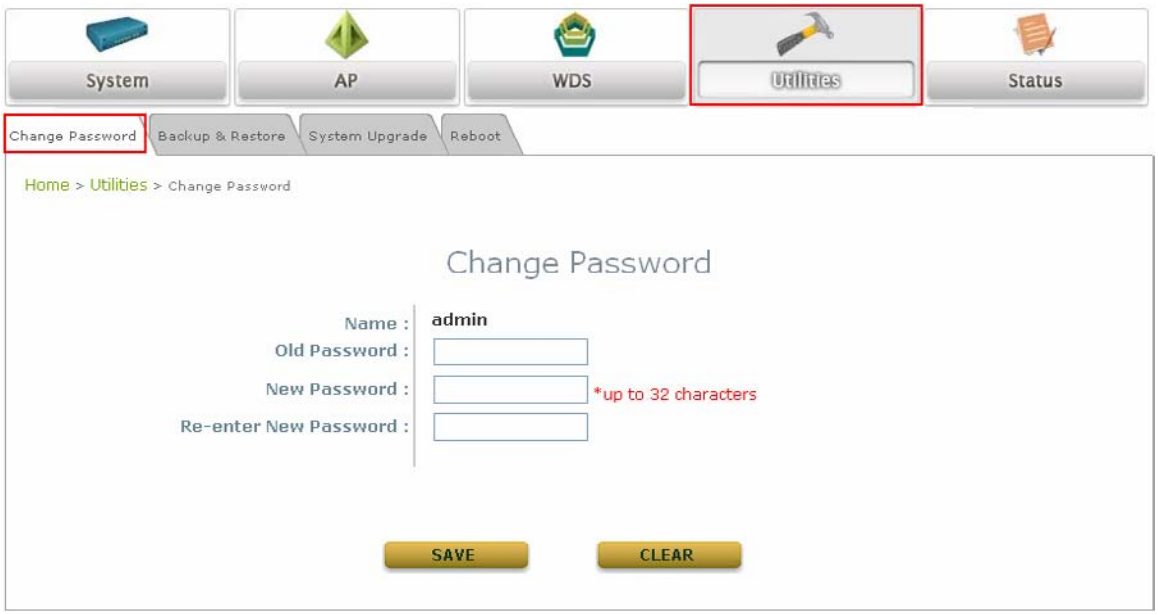
4. After a successful login into EAP300, a **System Overview** page of web management interface will appear, as depicted below.



5. To logout, simply click on the ***Logout*** button at the upper right hand corner of the interface to return to the Administrator Login Page. Click ***OK*** to logout.

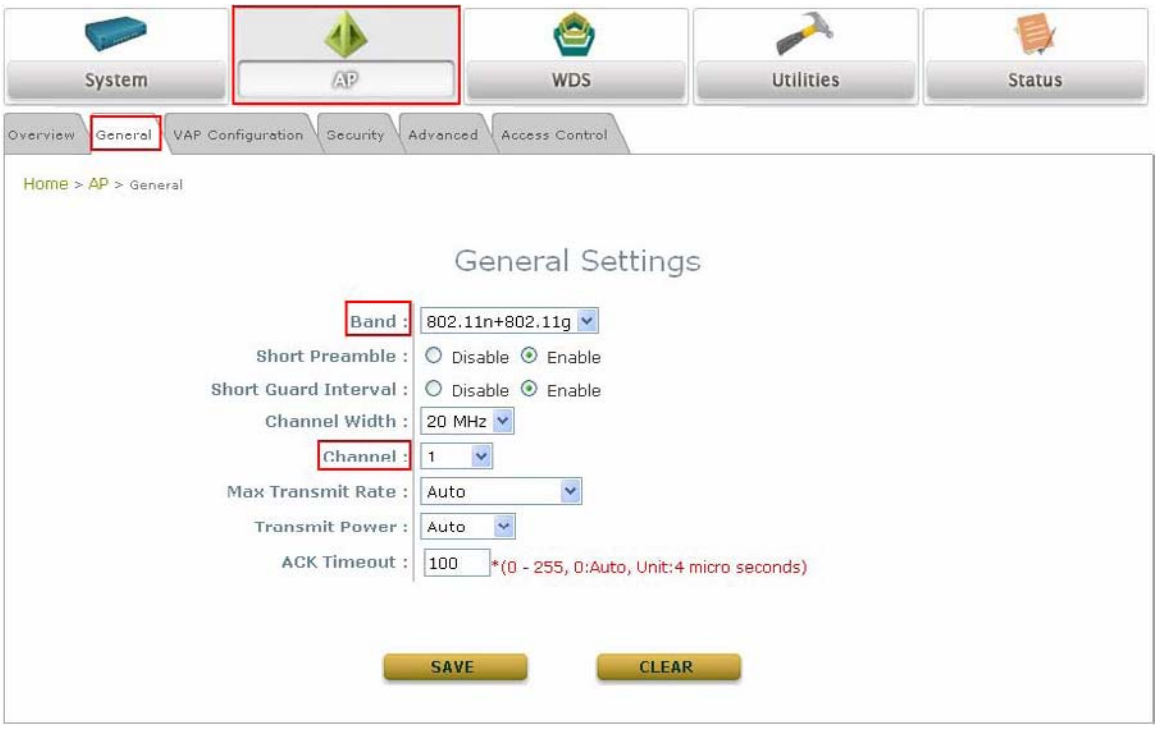
Common Settings

Step 1. Change Administrator's Password



- Click on the **Utilities** main menu button, and then select the **Change Password** tab.
- Enter the old password and then a new password with a length of up to 32 characters, and retype it in the *Re-enter New Password* field.
- Click ***Save*** to save the changes.

Step 2. Configure General AP (Access Point) Settings



- Click on the **AP** main menu button, and then select the **General** tab.
- Determine the *Band* and *Channel* settings:
  Select your preferred *Band* and *Channel* for you wireless connection. For example, select *802.11n+802.11g* for the band and *1* for the channel.

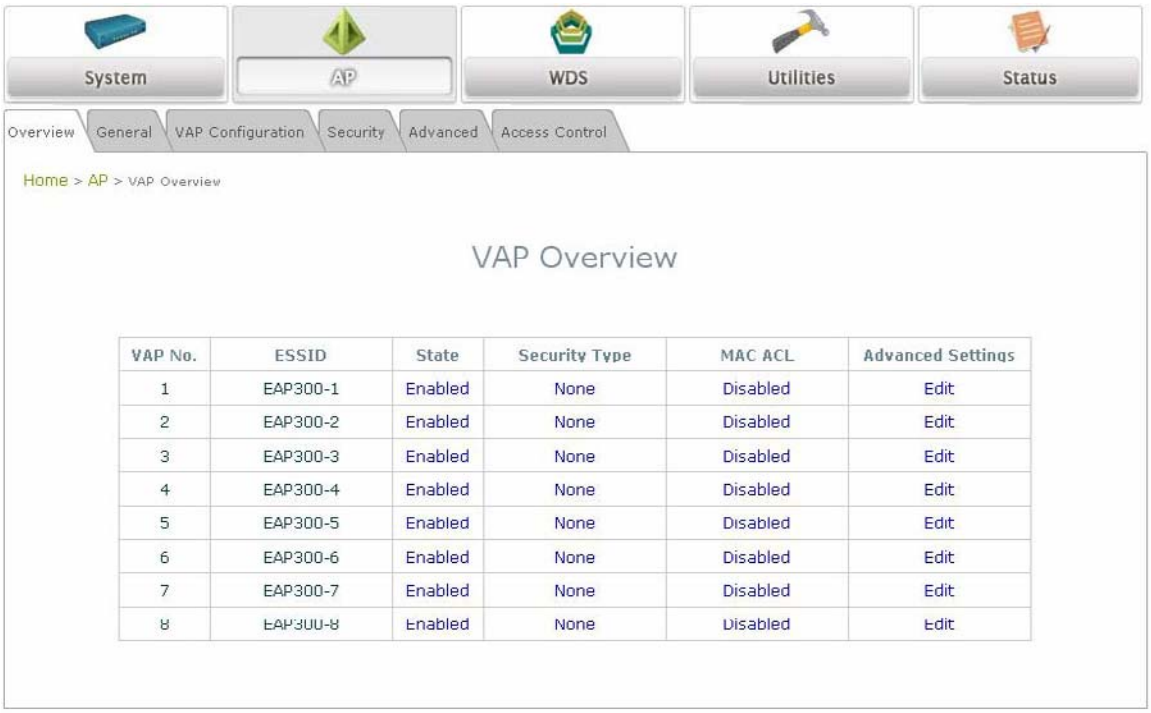
Step 3. Configure VAP (Virtual Access Point) Profile Settings

- EAP300 supports up to 8 virtual APs (VAPs).
- Configure VAP profile settings：

  (a) Select the **VAP Configuration** tab to configure the settings of the desired VAP.

  (b) Enable a specific VAP from the drop-down menu of *Profile Name* and configure related settings below.
- Check VAP status：

  After finishing VAP configuration, the status of enabled Virtual APs shall be reflected on the VAP Overview page.



Step 4. Configure WDS (Wireless Distribution System) Settings (Optional)

To extend the wireless coverage, EAP300 supports up to 4 WDS links for connecting wirelessly to other WDS-capable APs (peer APs). By default, all WDS profiles are disabled.

- Click on the **WDS** main menu button.
- Select the **WDS Configuration** tab.
- Choose the desired WDS profile:
  (a) Enable the **WDS**
  (b) Enter the **MAC Address of Remote AP** (peer AP) and then Click **SAVE**

If you use another EAP300 as the peer AP, simply repeat the above-mentioned steps to configure another peer AP(s).

Note:	On each and every configuration page, you may Click ***Save*** to save the changes, but you must reboot the system upon the completion of all configuration settings for the changes to take effect. When clicking ***Save***, the following message will appear: **"Some modifications have been saved and will take effect after Reboot."**

Congratulation!

Now, 4ipnet EAP300 is installed and configured successfully.

After EAP300's network configuration is completed, please remember to change the IP Address of your PC Connection Properties back to its original settings in order to ensure that your PC functions properly in its real network environments.

- ***It is strongly recommended to make a backup copy of the configuration settings.***
- ***For further configuration and backup information, please refer to the User's Manual.***

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