

IPv4 Settings Configuration on the WAP131 and WAP351 Access Points

Objective

Internet Protocol version 4 (IPv4) is the fourth revised protocol used for routing traffic across the internet and providing communication between different networks. IPv4 uses 32-bit (four-byte) IP addresses as identification for network devices so that connectivity between them is possible. IPv4 settings allow you to assign an IP address via Dynamic Host Configuration Protocol (DHCP) or configure a static IP manually.

The objective of this document is to explain how to configure IPv4 settings on the WAP131 and WAP351 devices.

Applicable Devices

- WAP131
- WAP351

Software Version

- 1.0.0.39

IPv4 Settings

Step 1. Log in to the Access Point Configuration utility and choose **LAN > IPv4 Setting**. The IPv4 Setting page opens:

IPv4 Setting

Connection Type: DHCP
 Static IP

Static IP Address: 192 . 168 . 1 . 245

Subnet Mask: 255 . 255 . 255 . 0

Default Gateway: 192 . 168 . 1 . 1

Domain Name Servers: Dynamic
 Manual

Save

Step 2. In the *Connection Type* field, click the desired radio button to designate how the device will obtain an IP address. By default, the DHCP client on the WAP device automatically broadcasts the requests for network information. If you want to use a static IP address, you must disable the DHCP client and manually configure the IP address and other network information.

IPv4 Setting

Connection Type: DHCP
 Static IP

Static IP Address: 192 . 168 . 1 . 245

Subnet Mask: 255 . 255 . 255 . 0

Default Gateway: 192 . 168 . 1 . 1

Domain Name Servers: Dynamic
 Manual

Save

The available options are defined as follows:

- DHCP — A DHCP server on the LAN assigns the IP address to the WAP device. If you choose this option, proceed to Step 1 of the [DHCP](#) section.
- Static IP — Manually configure the IPv4 address. The IPv4 address should be in a form similar to xxx.xxx.xxx.xxx (192.0.2.10). If you choose this option, skip to Step 1 of the [Static IP](#) section.

DHCP

Step 1. Click the desired radio button in the *Domain Name Servers* field. Domain Name System (DNS) is a protocol that helps the devices reach other computers and private networks over the Internet by translating domain names into their respective IP addresses.

IPv4 Setting

Connection Type: DHCP
 Static IP

Static IP Address: 192 . 168 . 1 . 245

Subnet Mask: 255 . 255 . 255 . 0

Default Gateway: 192 . 168 . 1 . 1

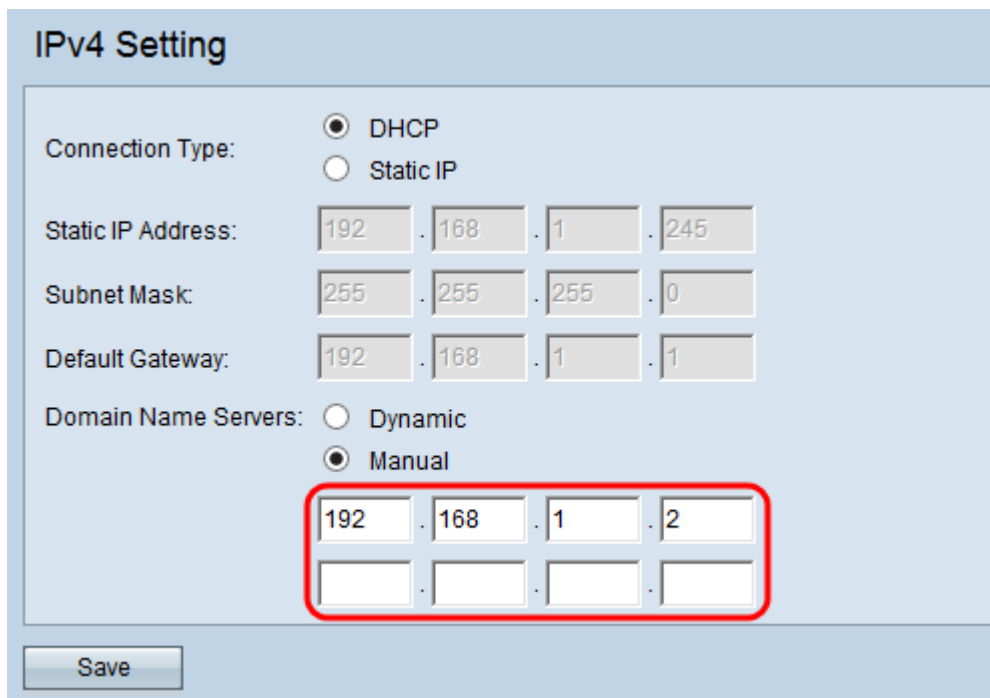
Domain Name Servers: Dynamic
 Manual

Save

The available options are defined as follows:

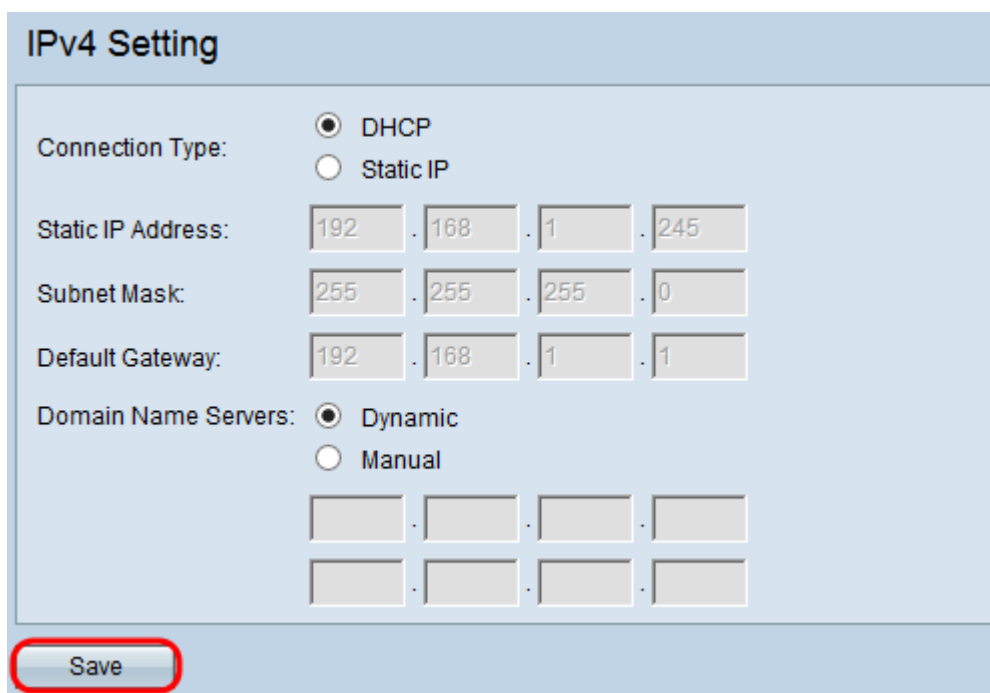
- **Dynamic** — The WAP device acquires the DNS server addresses from a DHCP server on the LAN. If you choose this option, skip to Step 3.
- **Manual** — Allows you to manually configure one or more DNS server addresses in the *Domain Name Servers* fields.

Step 2. (Optional) If you chose the **Manual** radio button, enter an IP address of a DNS server in the available field. Although two fields are available, only one address is required; inputting a second address is optional. Having two DNS servers can be helpful in the event that one of the servers goes down or becomes unavailable.



The screenshot shows the 'IPv4 Setting' configuration page. The 'Connection Type' is set to 'DHCP'. The 'Static IP Address' is 192.168.1.245, 'Subnet Mask' is 255.255.255.0, and 'Default Gateway' is 192.168.1.1. Under 'Domain Name Servers', the 'Manual' radio button is selected. The first DNS server field is highlighted with a red box and contains the IP address 192.168.1.2. A 'Save' button is located at the bottom left.

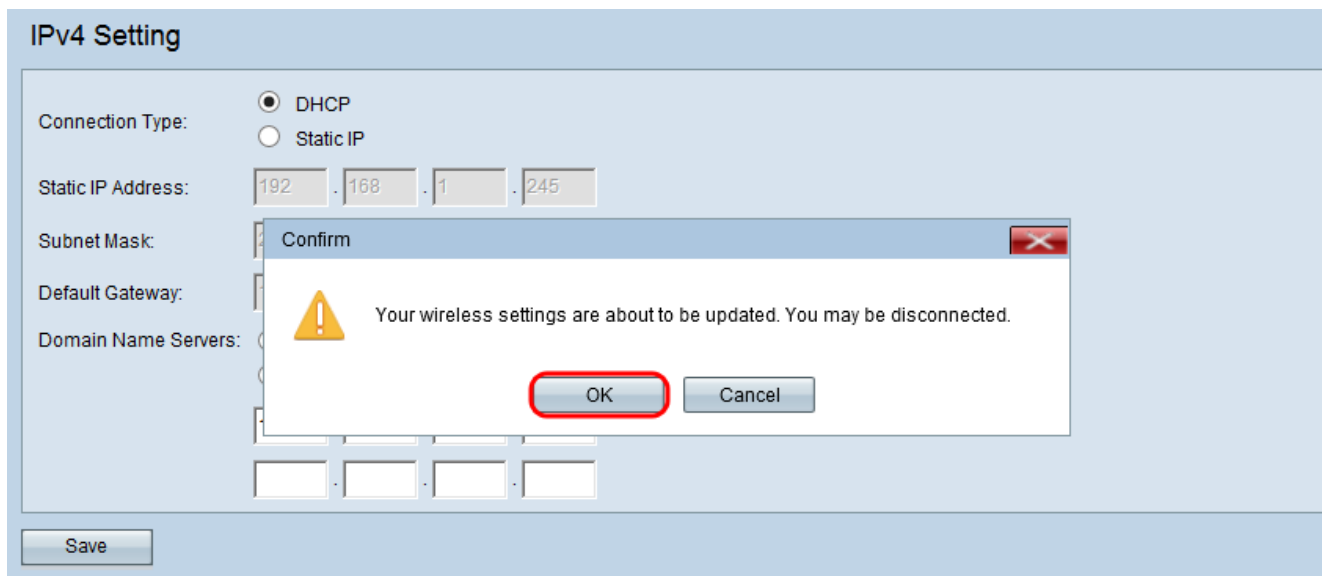
Step 3. Click **Save** to save the settings.



The screenshot shows the 'IPv4 Setting' configuration page after saving. The 'Connection Type' is still 'DHCP'. The 'Static IP Address' is 192.168.1.245, 'Subnet Mask' is 255.255.255.0, and 'Default Gateway' is 192.168.1.1. Under 'Domain Name Servers', the 'Dynamic' radio button is now selected. The 'Save' button at the bottom left is highlighted with a red box.

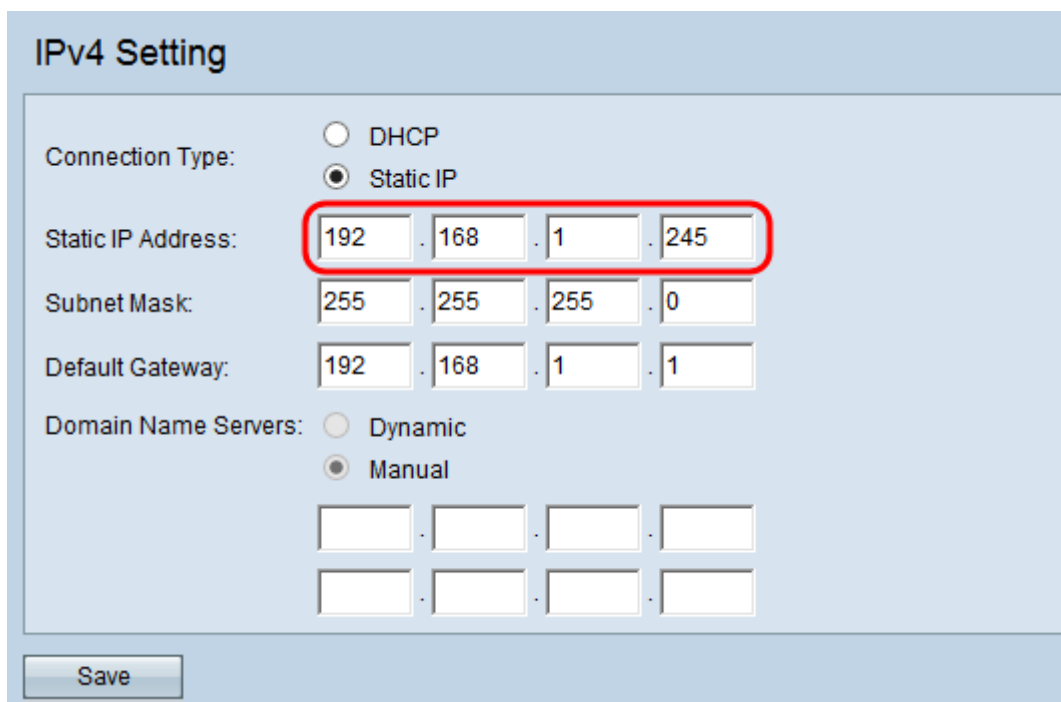
Step 4. If you changed any settings, a pop-up window will appear, warning of possible

disconnections. Click **OK** to apply your settings.



Static IP

Step 1. Enter an IP address for the access point in the *Static IP Address* field. The IP address which you assign should not have been assigned to any other devices in the same network.



Step 2. Enter the subnet mask of the network in the *Subnet Mask* field. The default mask is based on either the class of IP address you choose, or how many subnets you use for the network.

IPv4 Setting

Connection Type: DHCP
 Static IP

Static IP Address: 192 . 168 . 1 . 245

Subnet Mask: 255 . 255 . 255 . 0

Default Gateway: 192 . 168 . 1 . 1

Domain Name Servers: Dynamic
 Manual

. . .

. . .

Save

Step 3. Enter the default gateway IP address in the *Default Gateway* field. A default gateway is the node on the computer that is used when an IP address does not match a route in the routing table. The default gateway then forwards the traffic appropriately. The default gateway is usually a router. To learn how to find your default gateway's IP address, refer to the article [Using Windows Command Prompt to Determine the IP Address of a Connected Device](#).

IPv4 Setting

Connection Type: DHCP
 Static IP

Static IP Address: 192 . 168 . 1 . 245

Subnet Mask: 255 . 255 . 255 . 0

Default Gateway: 192 . 168 . 1 . 1

Domain Name Servers: Dynamic
 Manual

. . .

. . .

Save

Step 4. Enter the IP address of the Domain Name System (DNS) server in the *Domain Name Server* fields. Click the desired radio button in the *Domain Name Servers* field. Domain Name System (DNS) is a protocol that helps the devices reach other computers and private networks over the Internet by translating domain names into their respective IP addresses. You can also add another DNS server IP address in the other field provided, but it is optional. Having two DNS servers can be helpful in the event that one of the servers goes down or becomes unavailable.

IPv4 Setting

Connection Type: DHCP
 Static IP

Static IP Address: 192 . 168 . 1 . 245

Subnet Mask: 255 . 255 . 255 . 0

Default Gateway: 192 . 168 . 1 . 1

Domain Name Servers: Dynamic
 Manual

192 . 168 . 1 . 2

192 . 168 . 1 . 101

Save

Step 5. Click **Save** to save the settings.

IPv4 Setting

Connection Type: DHCP
 Static IP

Static IP Address: 192 . 168 . 1 . 245

Subnet Mask: 255 . 255 . 255 . 0

Default Gateway: 192 . 168 . 1 . 1

Domain Name Servers: Dynamic
 Manual

192 . 168 . 1 . 2

192 . 168 . 1 . 101

Save

Step 6. If you changed any settings, a pop-up window will appear warning of possible disconnections. Click **OK** to apply your settings.

IPv4 Setting

Connection Type: DHCP Static IP

Static IP Address: . . .


Subnet Mask: . . .

Default Gateway: . . .

Domain Name Servers: . . .

. . .

Confirm ✖

 Your wireless settings are about to be updated. You may be disconnected.