Configure AP Mode on the WAP4410N

Objective

The WAP4410N is capable of performing different functions based on where it is placed in the network topology. In addition to functioning as a basic access point, the WAP can be a wireless repeater or bridge serving an existing wireless network. If you are using SNMP (Simple Network Management Protocol), the WAP can also function as a wireless monitor, detecting rogue APs and sending out SNMP traps.

The objective of this document is to show you how to configure the AP Mode of the WAP4410N.

Applicable Devices

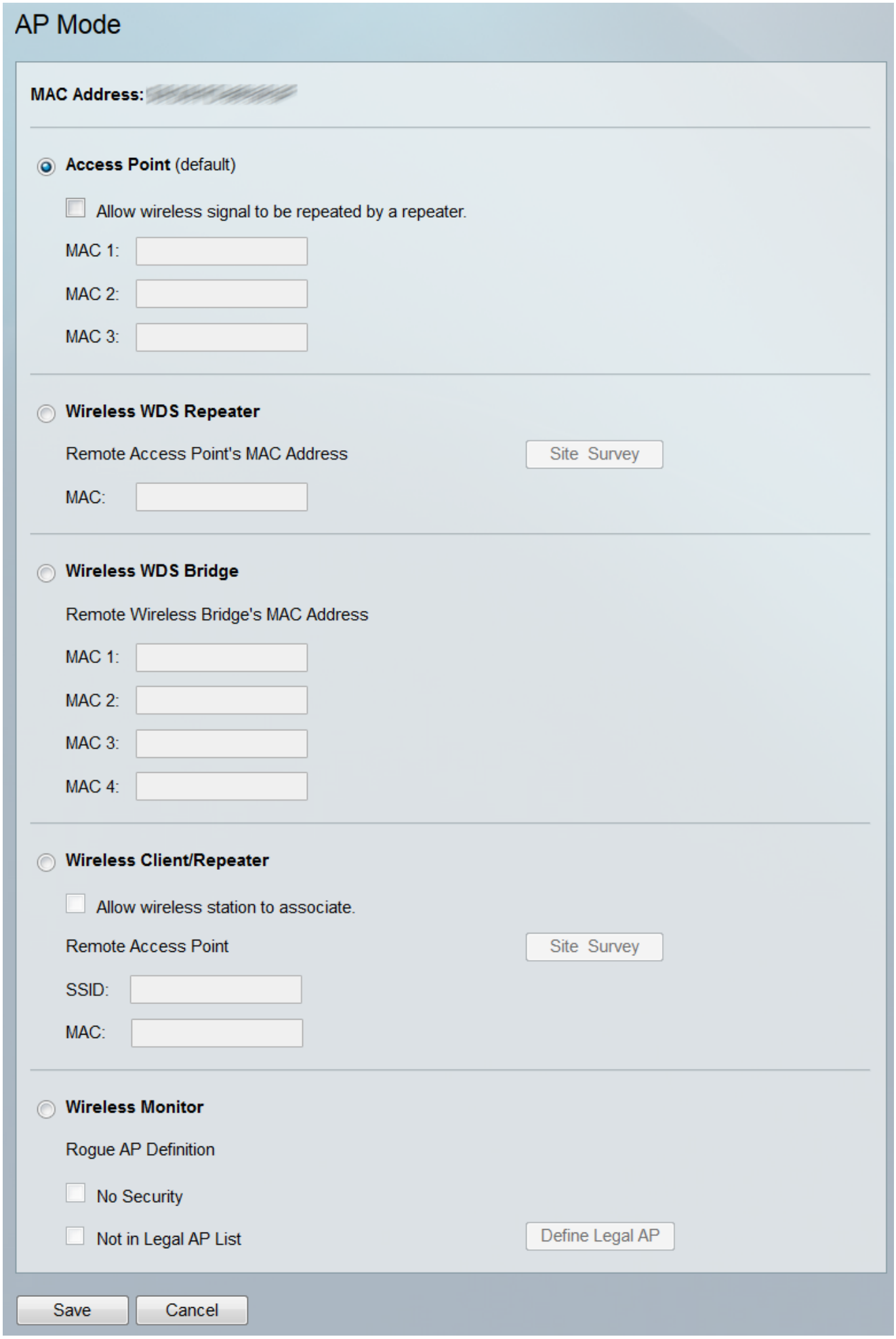
- WAP4410N

Software Version

- v2.0.7.8

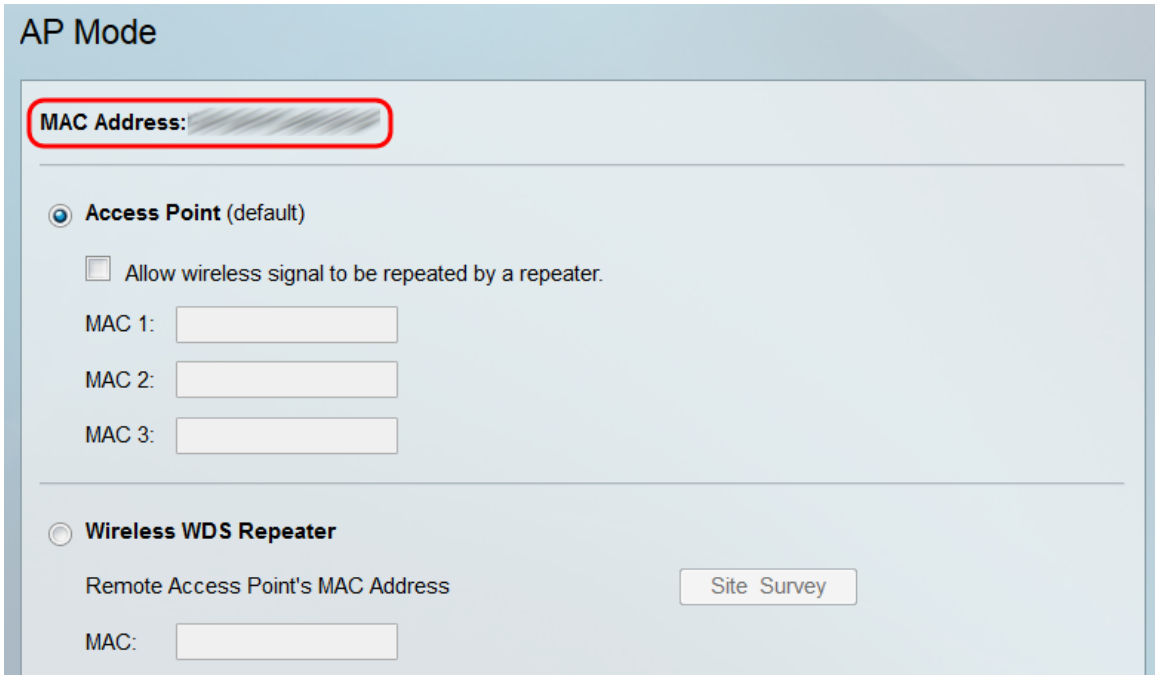
Configuring AP Mode

Step 1. Log in to the web configuration utility and choose **AP Mode > AP Mode**. The *AP Mode* page opens.

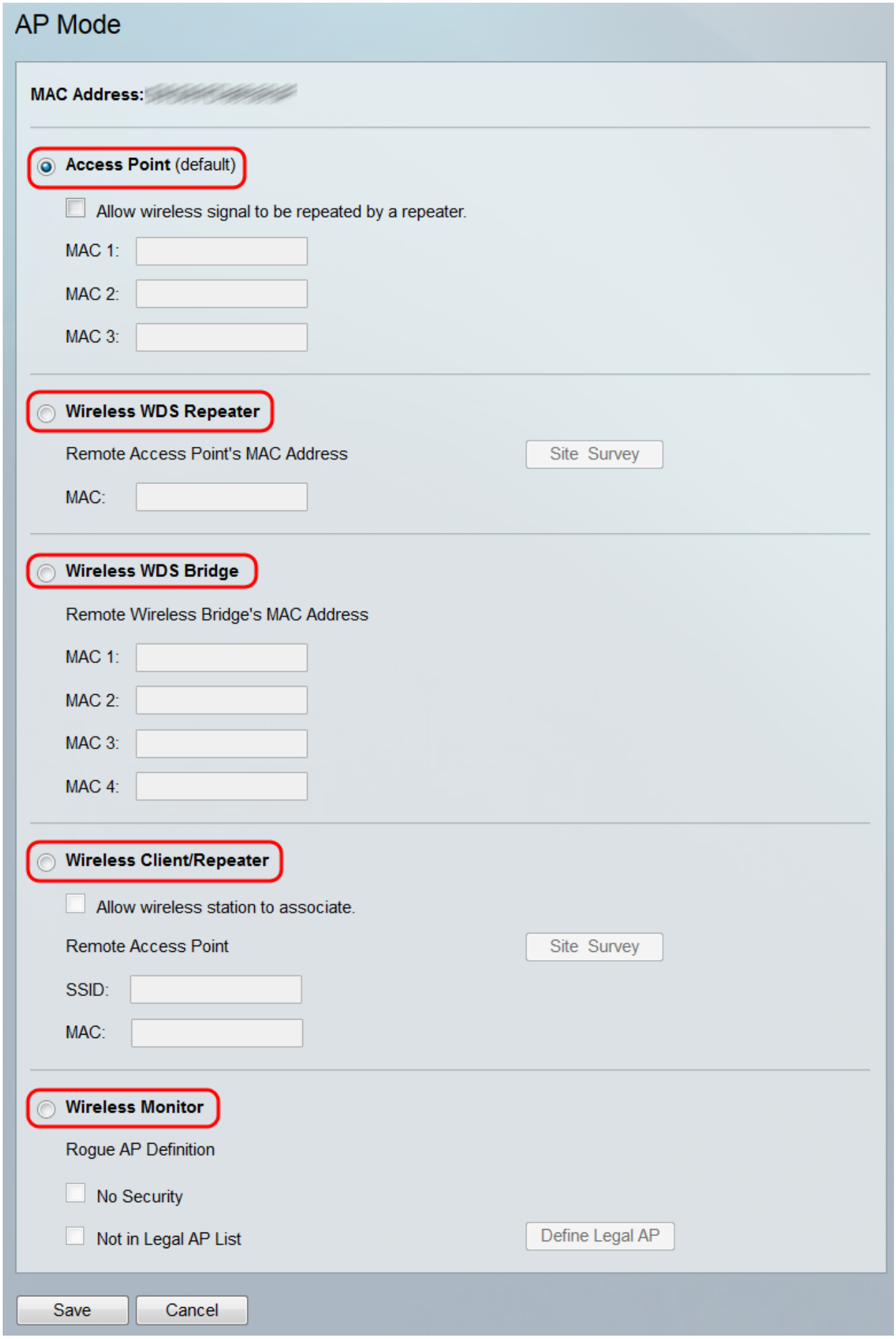


The *MAC Address* field displays the MAC address of the wireless interface on this WAP. You

can use this information when configuring other WAPs in order to connect to this one.



Step 2. Select a radio button corresponding to the AP Mode you want the WAP to operate in.



The available options are as follows:

• Access Point — The Access Point mode is the default mode of the WAP, which allows wireless clients to connect to the network. You can also configure whether the wireless signal can be repeated by other devices. If you select this option, go to the *Access Point* section.

• Wireless WDS Repeater — In this mode, the WAP takes the wireless signal of another WDS (wireless distribution system) access point and repeats it. In order to enable this function, you need the MAC address of the access point whose signal you want to repeat. If you select this option, go to the *Wireless WDS Repeater* section.

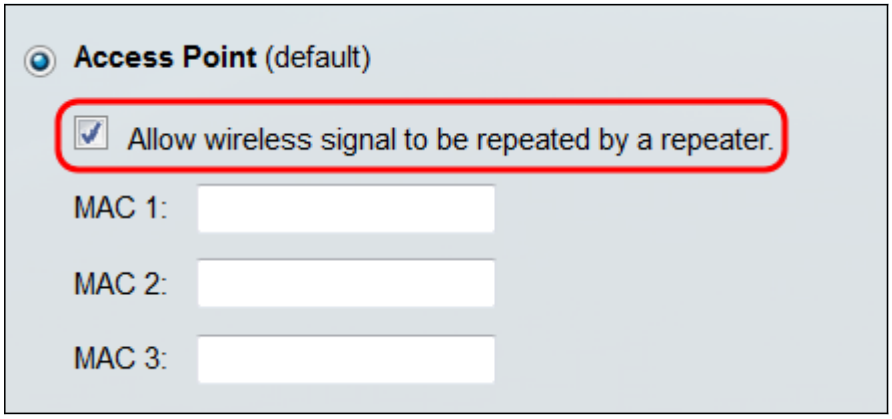
• Wireless WDS Bridge — In this mode, a wireless bridge can be created between this WAP and another WDS access point; wireless clients cannot connect to the WAP in this mode. This option allows wired devices to connect to the network wirelessly. If you select this option, go to the *Wireless WDS Bridge* section.

• Wireless Client/Repeater — Choosing this option allows the WAP to become a client/repeater to an existing wireless network. You can also choose whether other wireless clients can connect to this WAP or not. If you select this option, go to the *Wireless Client/Repeater* section.

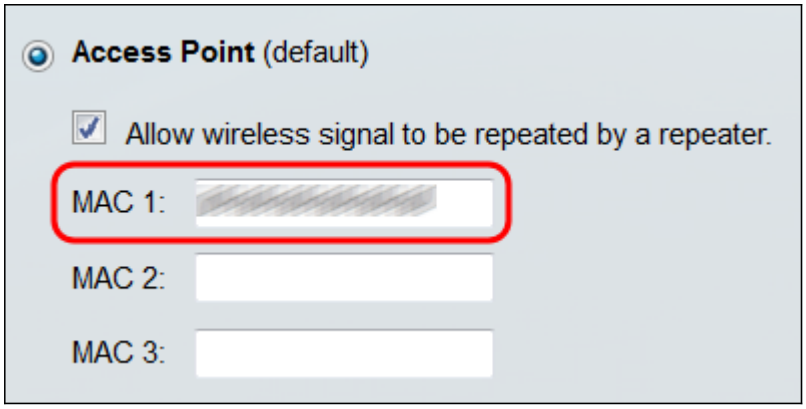
• Wireless Monitor — In this mode, the WAP functions as a wireless monitor, which sends SNMP (Simple Network Management Protocol) traps whenever a rogue AP is detected. If you are not using SNMP, do not use this mode. Wireless clients cannot connect to the WAP in this mode. If you select this option, go to the *Wireless Monitor* section.

Access Point

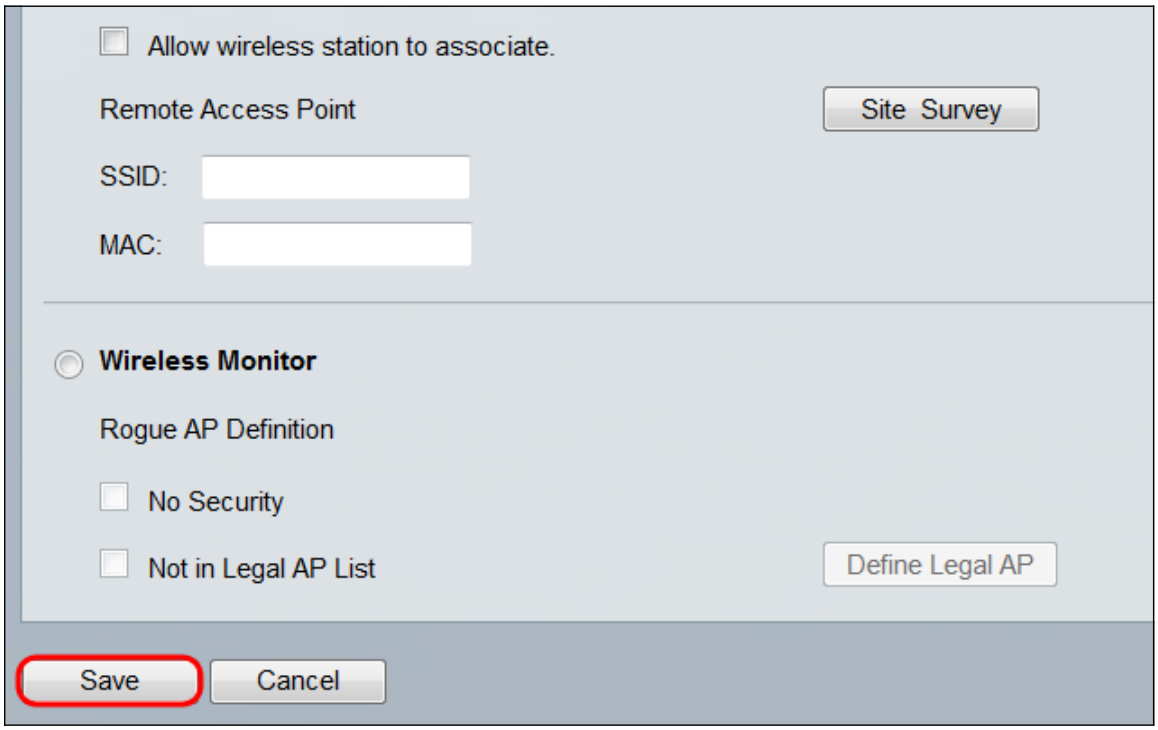
Step 1. If you want the WAP's wireless signal to be repeated by a wireless repeater, check the *Allow wireless signal to be repeated by a repeater* check box.



Step 2. If you checked the *Allow wireless signal to be repeated by a repeater* check box, insert the MAC address(es) of the repeater(s) in the *MAC 1 - 3* field(s). You can enter in up to three addresses.



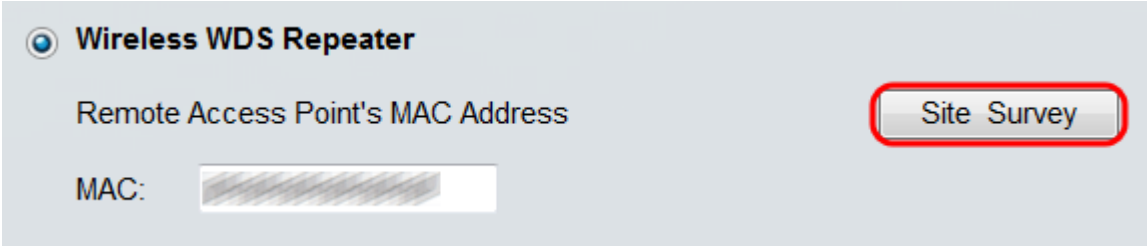
Step 3. Click **Save**.



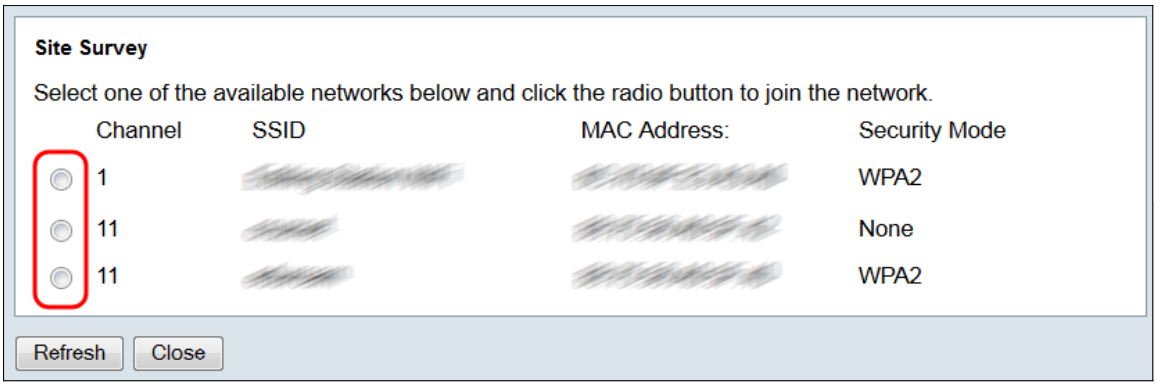
Wireless WDS Repeater

Step 1. Enter the wireless MAC address of the access point whose signal you would like to repeat in the *MAC* field. If you don't know this information, go to the next step; otherwise, skip to Step 5.

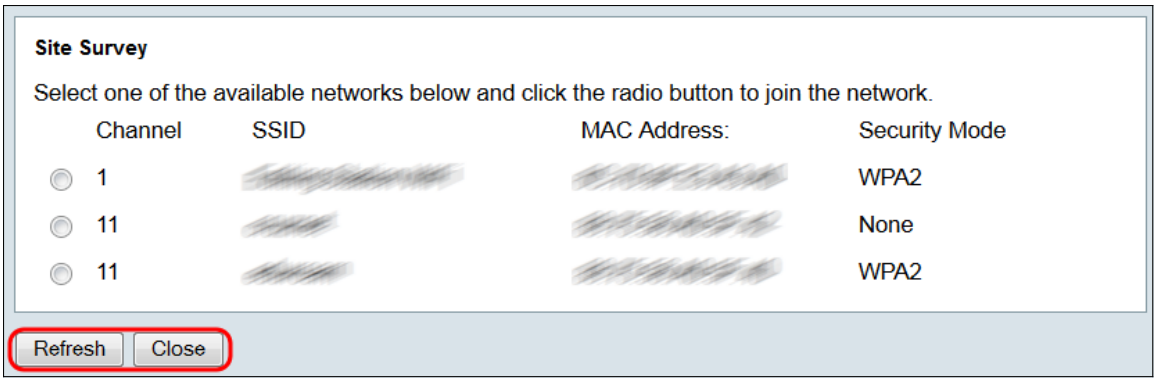
Step 2. If you don't have or don't know the MAC address of the access point, click the **Site Survey** button to see a list of available access points.



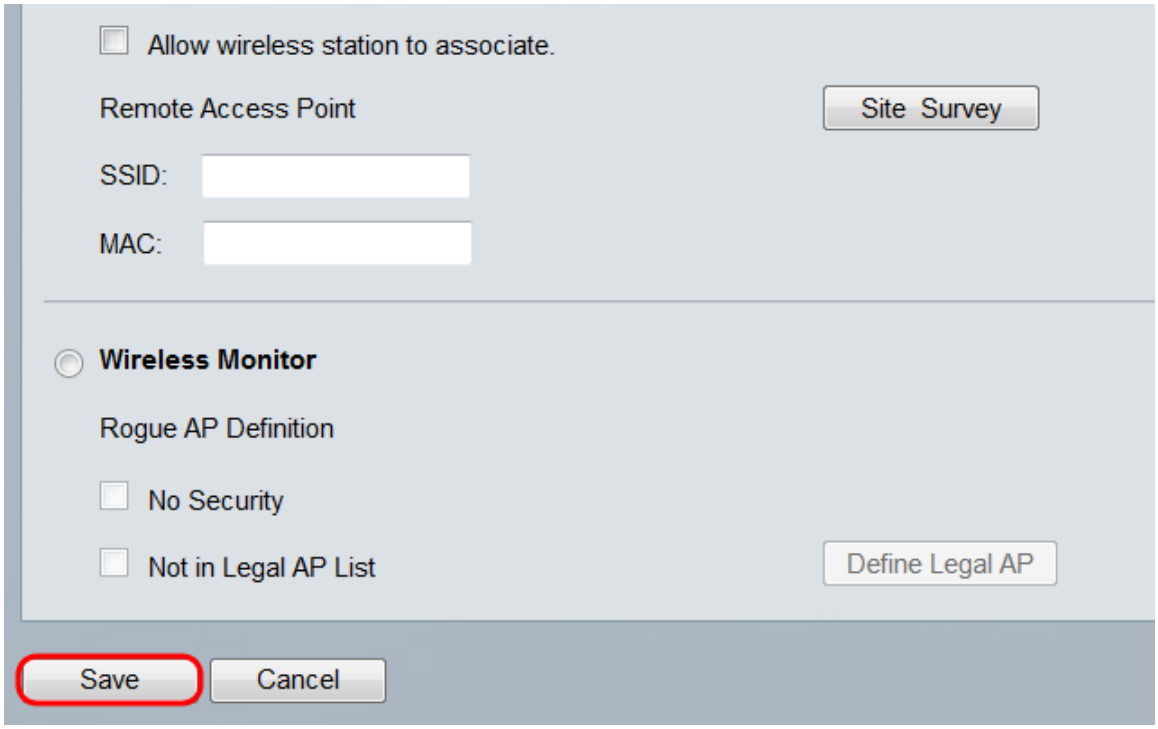
Step 3. In the window that pops up, a list of all nearby access points is displayed. Each access point has its channel, SSID, MAC address, and security mode listed. Clicking an access point's radio button will close the window and put its MAC address in the *MAC* field on the *AP Mode* page.



Step 4. If the access point you are looking for isn't displayed, you can click the **Refresh** button to refresh the list, or click **Close** to close the window and return to the *AP Mode* page.

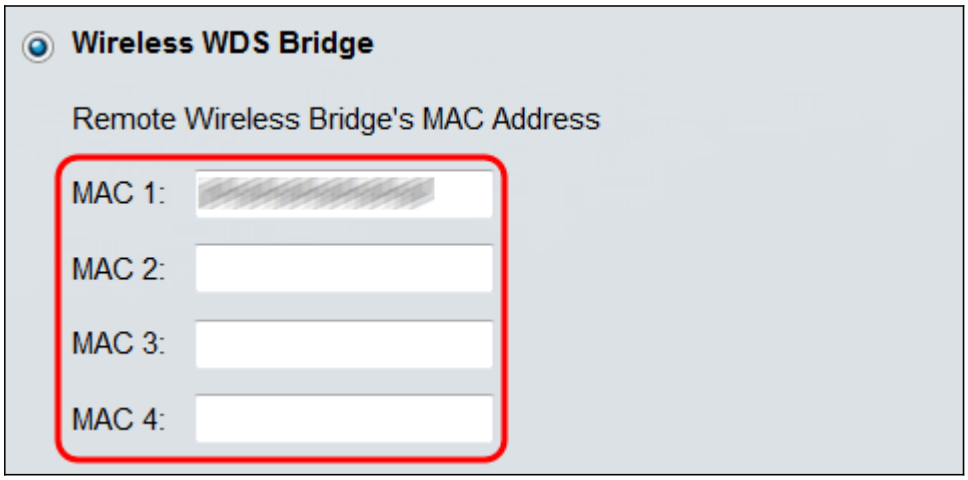


Step 5. Click **Save**.

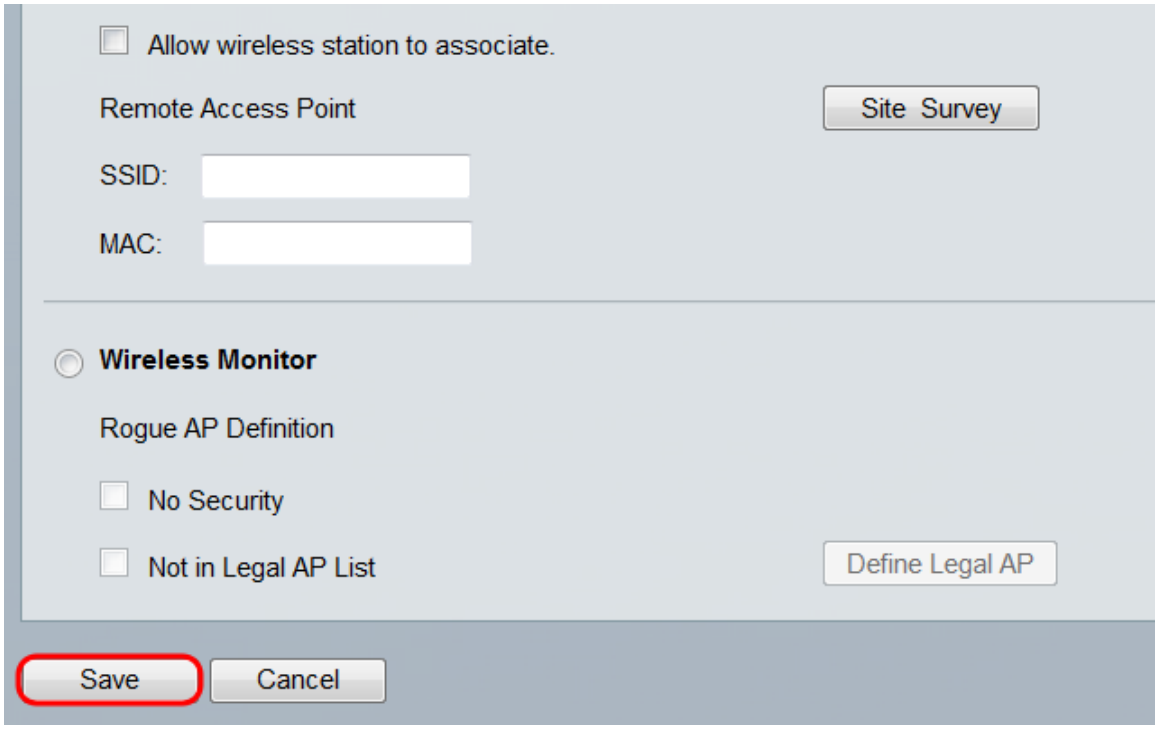


Wireless WDS Bridge

Step 1. In the *MAC 1-4* field(s), enter the wireless MAC address(es) of the device(s) at the other end of the bridge.

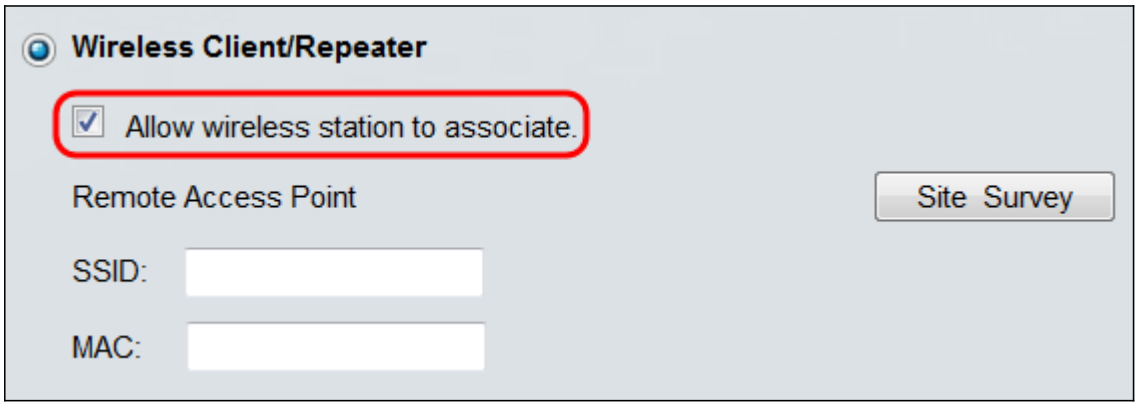


Step 2. Click **Save**.

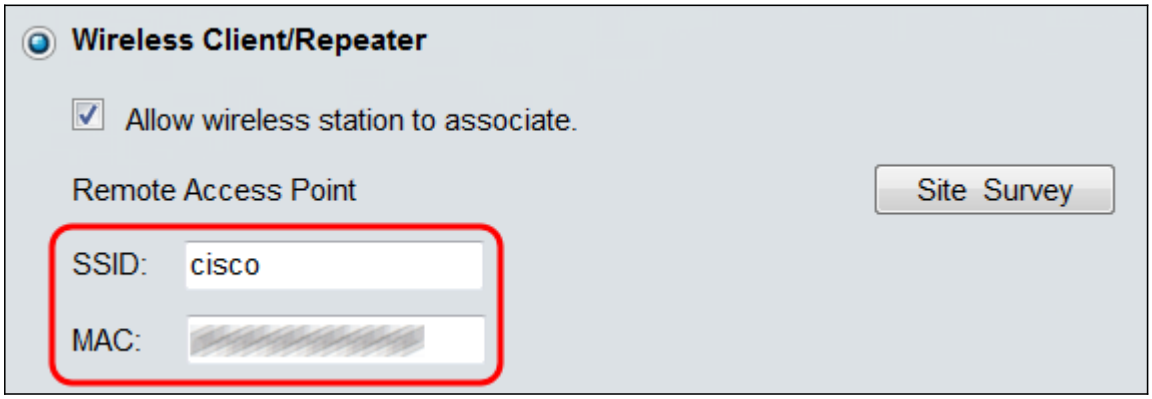


Wireless Client/Repeater

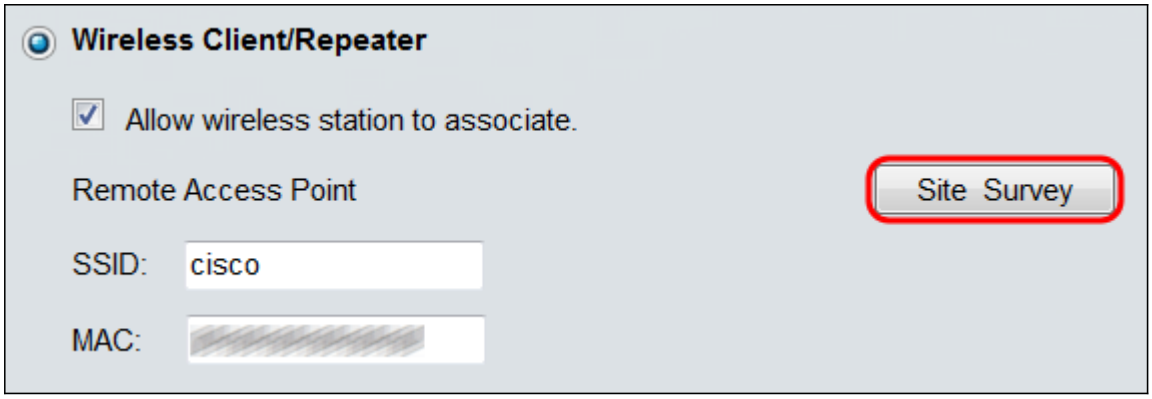
Step 1. (Optional) If you want other wireless clients to connect to the WAP while in this mode, check the *Allow wireless station to associate* checkbox.



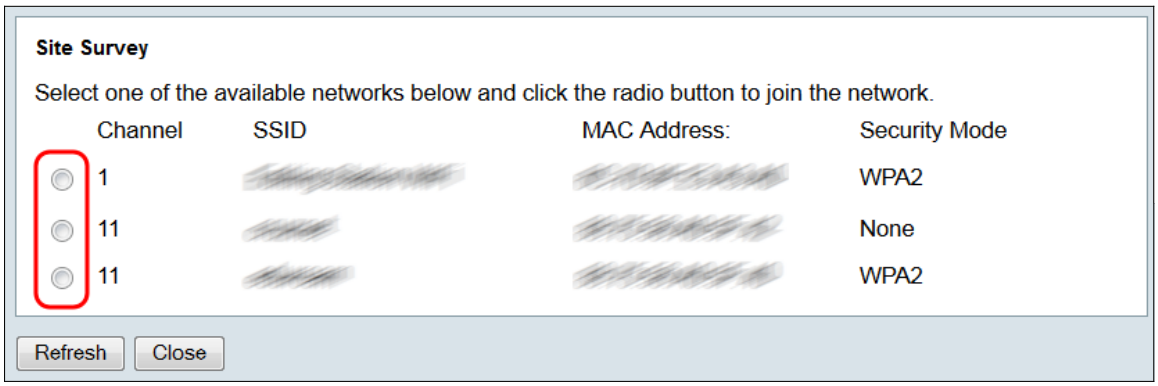
Step 2. In the *SSID* and *MAC* fields, enter the wireless SSID and MAC address of the access point whose signal you would like to join. If you don't have this information, go to the next step; otherwise, skip to Step 6.



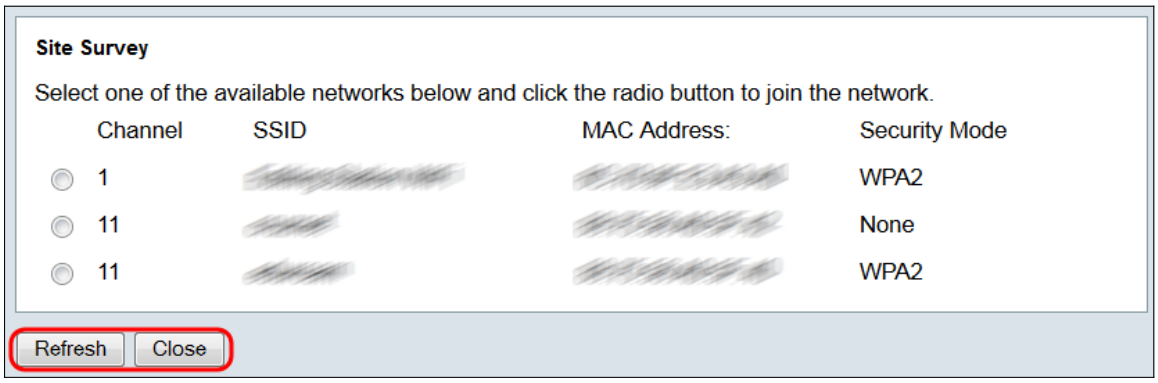
Step 3. If you don't have or don't know the MAC address of the access point, click the **Site Survey** button to see a list of available access points.



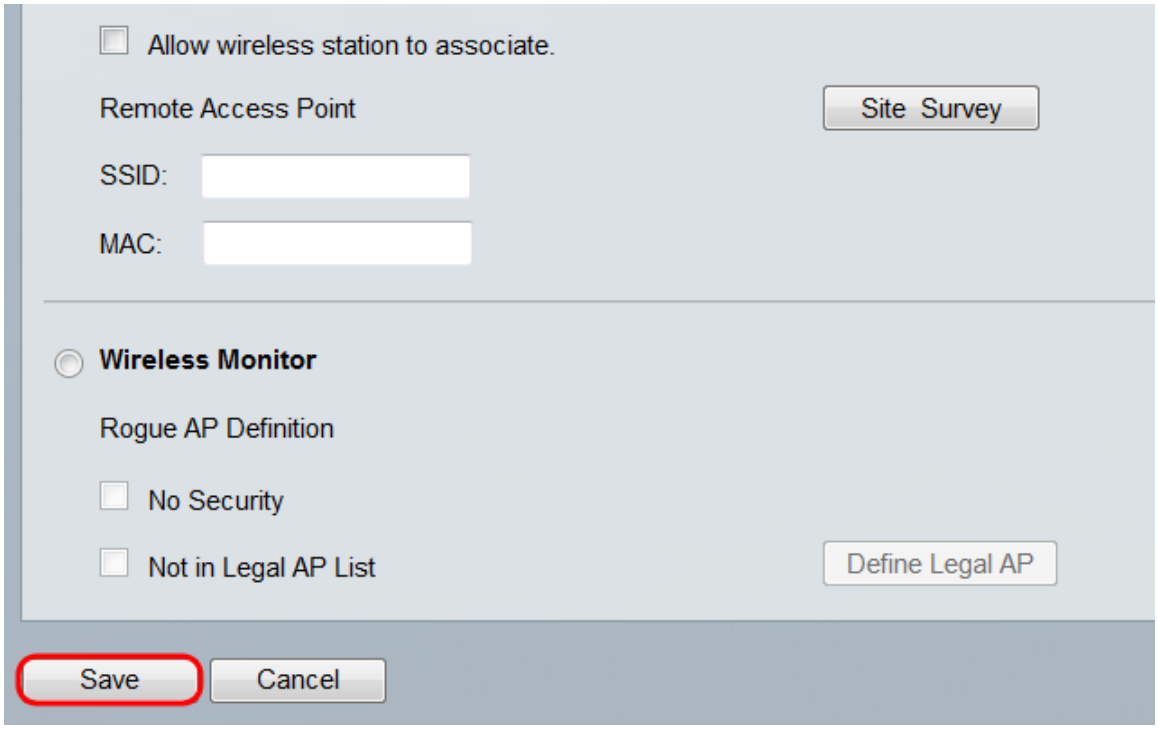
Step 4. In the window that pops up, a list of all nearby access points is displayed. Each access point has its channel, SSID, MAC address, and security mode listed. Clicking an access point's radio button will close the window and put its SSID and MAC address in their respective fields on the *AP Mode* page.



Step 5. If the access point you are looking for isn't displayed, you can click the **Refresh** button to refresh the list, or click **Close** to close the window and return to the *AP Mode* page.

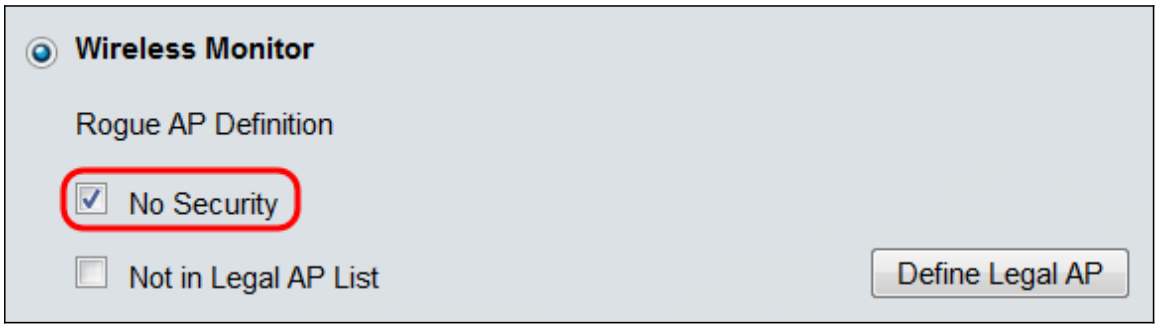


Step 6. Click **Save.**



Wireless Monitor

Step 1. Check the *No Security* checkbox to have the WAP consider any access point with no security to be a rogue AP.

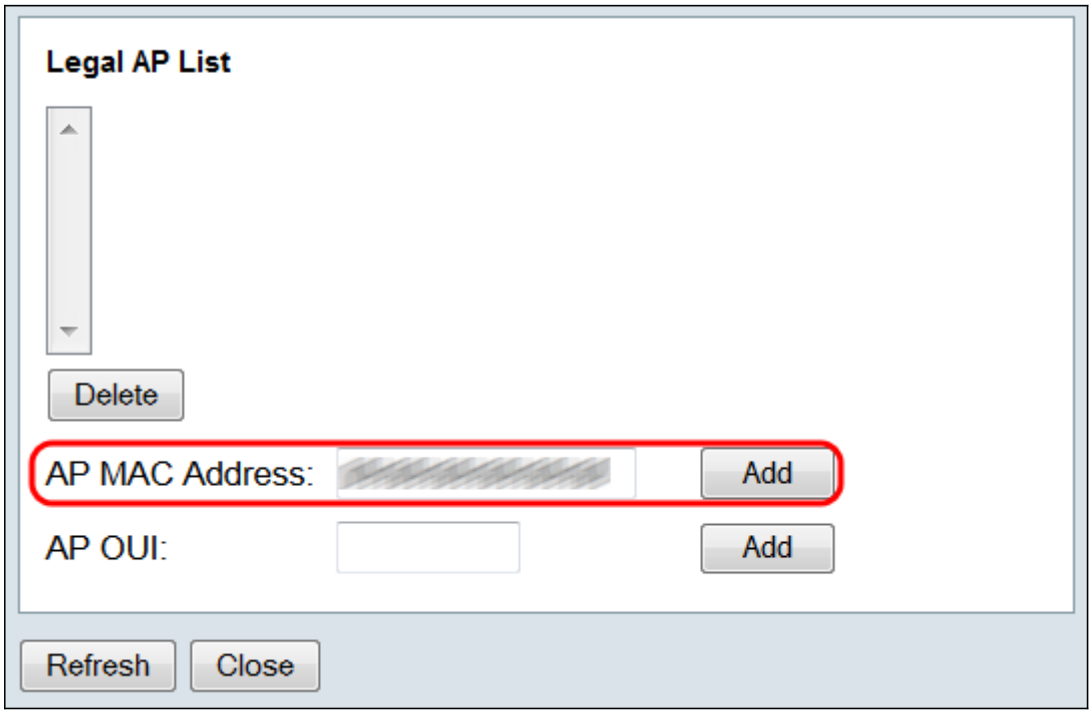


Note: Do not run your WAP in this AP Mode unless you use SNMP, as these options generate SNMP traps. For more information on SNMP, refer to the article *Configure Simple Network Management Protocol on WAP4410N Wireless-N Access Point*.

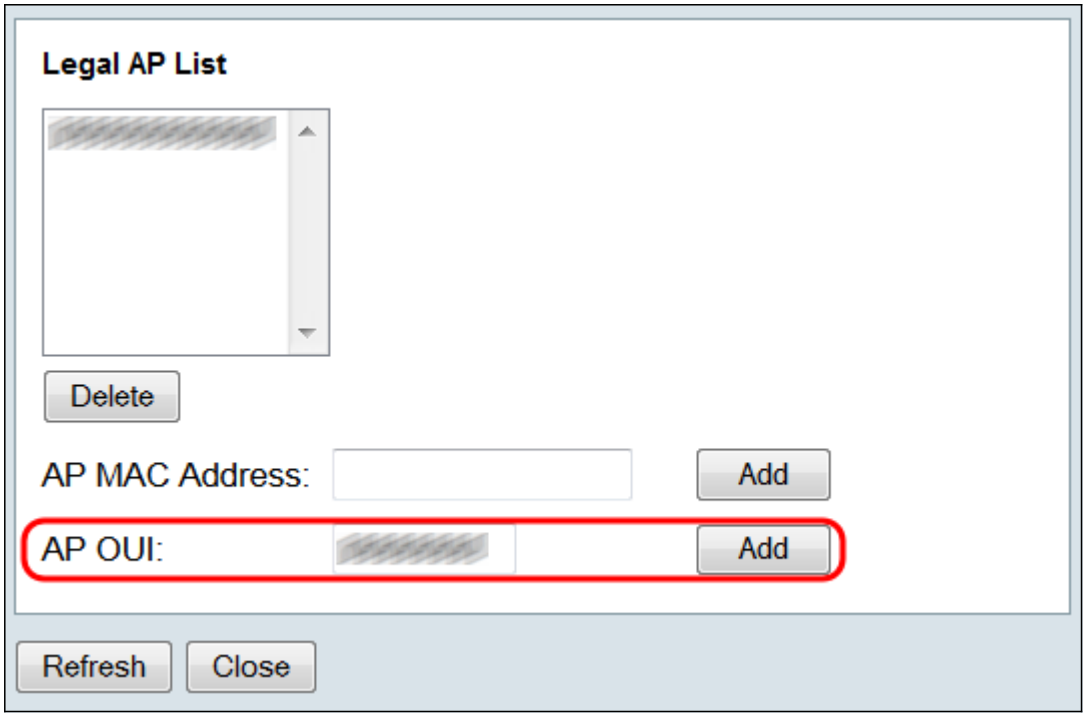
Step 2. Check the *Not in Legal AP List* to have the WAP consider any access point not in the legal AP list to be a rogue AP.

Step 3. To edit the legal AP list, click the **Define Legal AP** button. If you don't want to add or delete an access point from the list, skip to Step 8.

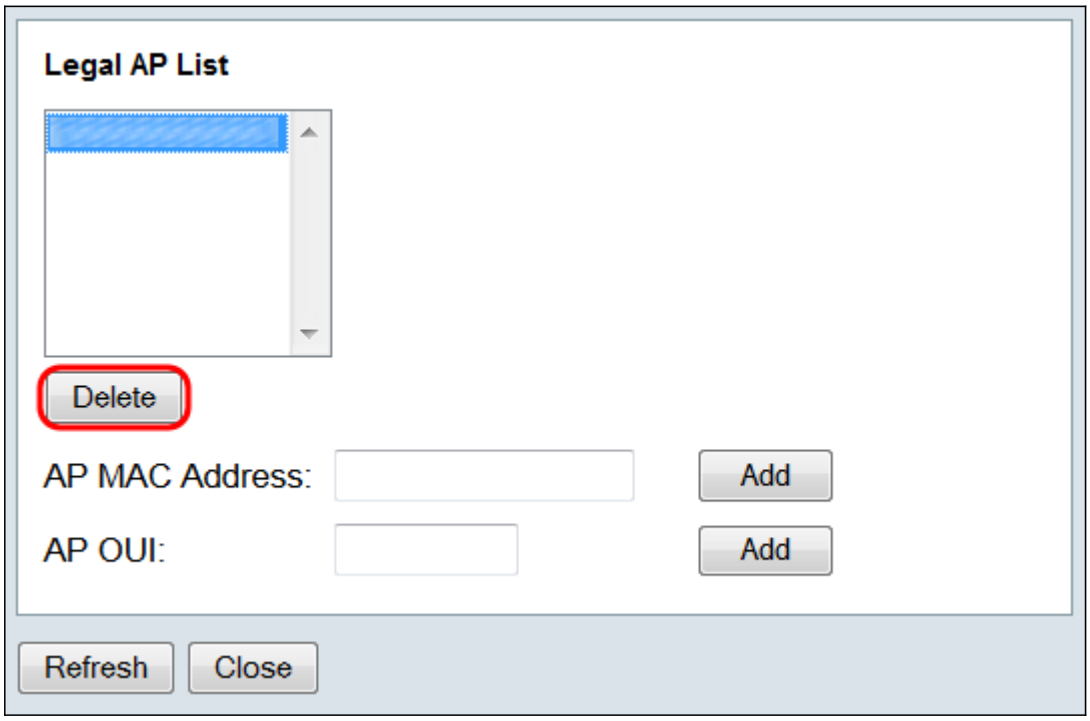
Step 4. The *Legal AP* window shows the legal AP list. To add an AP to the list, enter its MAC address into the *AP MAC Address* field, then click **Add**.



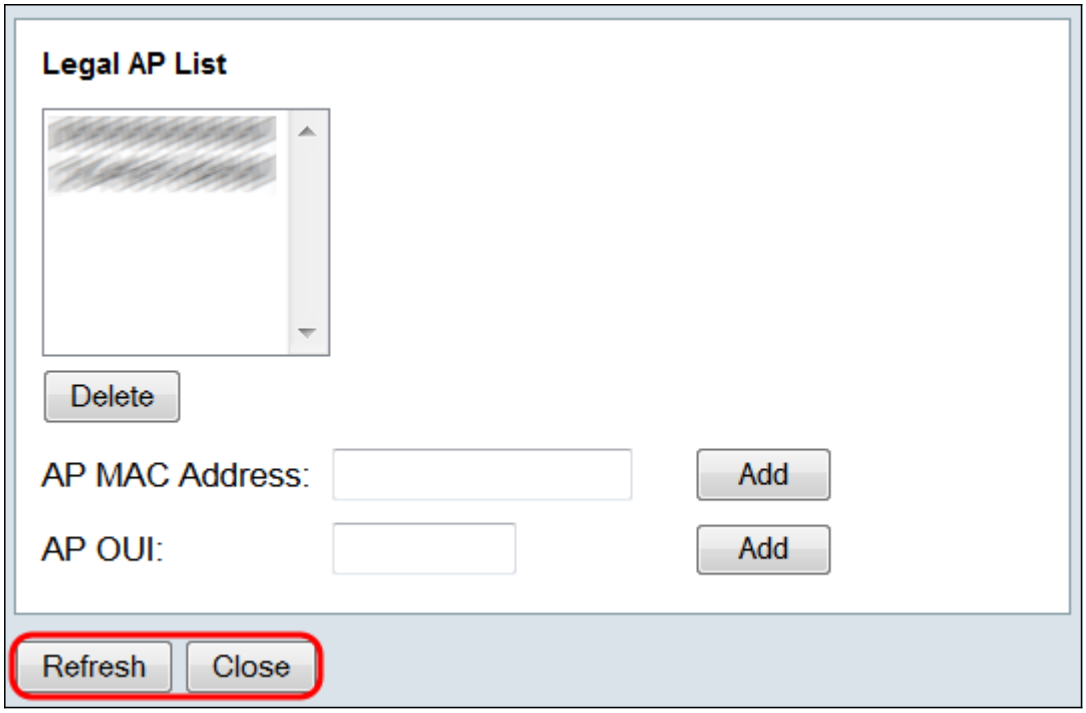
Step 5. You can also add access points to the list by using its OUI (organizationally unique identifier). An OUI is a 24-bit number that uniquely identifies a device manufacturer or organization; it's typically the first three bytes of the MAC address. Enter the access point's OUI in the *AP OUI* field, then click **Add**.



Step 6. To delete an access point from the list, select it and click **Delete**.



Step 7. Click **Refresh** to refresh the list, or click **Close** to close the window and return to the *AP Mode* page.



Step 8. Click **Save**.