



# Optimizing RFID Tracking

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## Finding Feature Information

## Optimizing RFID Tracking on Access Points

To optimize the monitoring and location calculation of RFID tags, you can enable tracking optimization on up to four channels within the 2.4-GHz band of an 802.11b/g access point radio. This feature allows you to scan only the channels on which tags are usually programmed to operate (such as channels 1, 6, and 11).

## How to Optimize RFID Tracking on Access Points

### Optimizing RFID Tracking on Access Points (CLI)

#### SUMMARY STEPS

1. **ap name *Cisco\_AP* mode monitor submode none**
2. **ap name *Cisco\_AP* dot11 24ghz shutdown**
3. **ap name *Cisco\_AP* monitor-mode tracking-opt**
4. **ap name *Cisco\_AP* monitor-mode dot11b {fast-channel [*first\_channel second\_channel third\_channel fourth\_channel*]}**
5. **ap name *Cisco\_AP* no dot11 24ghz shutdown**
6. **show ap monitor-mode summary**

## DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	<b>ap name</b> <i>Cisco_AP</i> <b>mode monitor submode none</b>  <b>Example:</b> <pre>Switch# ap name 3602a mode monitor submode none</pre>	Specifies the monitor submode for the access point as none.  <b>Note</b> A warning message indicates that changing the access point's mode will cause the access point to reboot and prompts you to specify whether you want to continue by entering <b>Y</b> . After you enter <b>Y</b> , the access point reboots.
<b>Step 2</b>	<b>ap name</b> <i>Cisco_AP</i> <b>dot11 24ghz shutdown</b>  <b>Example:</b> <pre>Switch# ap name AP01 dot11 24ghz shutdown</pre>	Disables the access point radio.
<b>Step 3</b>	<b>ap name</b> <i>Cisco_AP</i> <b>monitor-mode tracking-opt</b>  <b>Example:</b> <pre>Switch# ap name TSIM_AP1 monitor-mode tracking-opt</pre>	Configures the access point to scan only the Dynamic Channel Assignment (DCA) channels supported by its country of operation.  <b>Note</b> To disable tracking optimization for an access point, enter the <b>ap name</b> <i>Cisco_AP</i> <b>monitor-mode tracking-opt no-optimization</b> command.
<b>Step 4</b>	<b>ap name</b> <i>Cisco_AP</i> <b>monitor-mode dot11b</b> { <b>fast-channel</b> [ <i>first_channel second_channel third_channel fourth_channel</i> ]}  <b>Example:</b> <pre>Switch# ap name AP01 monitor-mode dot11b fast-channel 1 2 3 4</pre>	Chooses up to four specific 802.11b channels to be scanned by the access point.  <b>Note</b> In the United States, you can assign any value from 1 to 11 (inclusive) to the channel variable. Other countries support additional channels. You must assign at least one channel.
<b>Step 5</b>	<b>ap name</b> <i>Cisco_AP</i> <b>no dot11 24ghz shutdown</b>  <b>Example:</b> <pre>Switch# ap name AP01 no dot11 24ghz shutdown</pre>	Enables the access point radio.
<b>Step 6</b>	<b>show ap monitor-mode summary</b>  <b>Example:</b> <pre>Switch# show ap monitor-mode summary</pre>	Displays all the access points in monitor mode.

## Configuration Examples for Optimizing RFID Tracking

### Displaying all the Access Points in Monitor Mode: Example

This example shows how to display all the access points in monitor mode:

```
Switch# show ap monitor-mode summary
```

AP Name	Ethernet MAC	Status	Scanning Channel List
-----	-----	-----	-----
AP1131:4f2.9a	00:16:4:f2:9:a	Tracking	1,6,NA,NA

