



# Optimizing RFID Tracking

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## Finding Feature Information

Your software release may not support all of the features documented in this module. For the latest feature information and caveats, see the release notes for your platform and software release.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to <http://www.cisco.com/go/cfn>. An account on Cisco.com is not required.

## 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 Cisco_AP 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 Cisco_AP 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 Cisco_AP 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 Cisco_AP monitor-mode tracking-opt no-optimization</b> command.
<b>Step 4</b>	<b>ap name Cisco_AP monitor-mode dot11b</b> <b>{fast-channel [first_channel second_channel third_channel fourth_channel]}</b> <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 Cisco_AP 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

