Optimizing RFID Tracking

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
Step 1	**ap name** *Cisco_AP* **mode monitor submode none** **Example:** `Controller# ap name 3602a mode monitor submode none`	Specifies the monitor submode for the access point as none. **Note** 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 **Y**. After you enter **Y**, the access point reboots.
Step 2	**ap name** *Cisco_AP* **dot11 24ghz shutdown** **Example:** `Controller# ap name AP01 dot11 24ghz shutdown`	Disables the access point radio.
Step 3	**ap name** *Cisco_AP* **monitor-mode tracking-opt** **Example:** `Controller# ap name TSIM_AP1 monitor-mode tracking-opt`	Configures the access point to scan only the Dynamic Channel Assignment (DCA) channels supported by its country of operation. **Note** To disable tracking optimization for an access point, enter the **ap name** *Cisco_AP* **monitor-mode tracking-opt no-optimization** command.
Step 4	**ap name** *Cisco_AP* **monitor-mode dot11b** {**fast-channel** [*first_channel second_channel third_channel fourth_channel*]} **Example:** `Controller# ap name AP01 monitor-mode dot11b fast-channel 1 2 3 4`	Chooses up to four specific 802.11b channels to be scanned by the access point. **Note** 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.
Step 5	**ap name** *Cisco_AP* **no dot11 24ghz shutdown** **Example:** `Controller# ap name AP01 no dot11 24ghz shutdown`	Enables the access point radio.
Step 6	**show ap monitor-mode summary** **Example:** `Controller# show ap monitor-mode summary`	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:

```
Controller# 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
```