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Cisco AIR-AP2802I-B-K9C

Cisco Aironet 2802I-B-K9C Wi-Fi Access Point User Manual

Model: AIR-AP2802I-B-K9C

Introduction

This manual provides instructions for the installation, configuration, operation, and maintenance of the Cisco Aironet 2802I-B-K9C Wi-Fi Access Point. This device is designed to provide high-performance wireless connectivity using 802.11ac Wave 2 technology for enterprise-class networks.

Product Overview

The Cisco Aironet 2802I-B-K9C is an 802.11ac Wave 2 access point featuring 4x4 Multiple-Input Multiple-Output (MIMO) technology with three spatial streams. It supports connection rates up to 2.6 Gbps per radio. This access point includes internal antennas and is designed for high-density wireless environments.

A white, square-shaped Cisco Aironet 2802I-B-K9C Wi-Fi Access Point with rounded corners, featuring a small indicator light and the Cisco logo on its front surface.

What's in the Box

- AIR-AP2802I-B-K9C Access Point
- Pointer Card
- Brackets (optional)
- Ceiling Grid Clips (optional)

Setup and Installation

The Cisco Aironet 2800 Series with Mobility Express code offers a controllerless Wi-Fi management solution embedded directly on the access point, simplifying deployment for small to medium-sized networks.

Initial Configuration with Mobility Express

To set up the access point, connect it to a power source and a network switch. The Mobility Express code allows for initial configuration without an external controller. Access the web interface via a wirelessly connected device to begin the setup wizard. Refer to the official Cisco Mobility Express documentation for detailed, step-by-step instructions on initial network setup and configuration.
Note: Some users have reported challenges with standalone (Mobility Express) configuration. Ensure you follow the official Cisco documentation carefully for best results and consult Cisco support if difficulties persist.

Operation

MU-MIMO Technology

The access point utilizes 802.11ac Wave 2 with 4x4 MU-MIMO technology, enabling it to communicate with multiple client devices simultaneously. This improves overall network efficiency and throughput, especially in high-density environments.

Application Visibility and Control (AVC)

Network-Based Application Recognition (NBAR) deep-packet inspection provides application-aware control on the wireless network, enhancing manageability and productivity. This extends Cisco AVC as an end-to-end solution, offering complete visibility of applications in the network and allowing administrators to take appropriate actions.

Radio Resource Management (RRM)

Cisco RRM allows the Unified WLAN Architecture to continuously analyze the existing RF environment. It automatically adjusts each access point's power and channel configurations to mitigate co-channel interference and signal coverage problems. RRM reduces the need for exhaustive site surveys, increases system capacity, and provides automated self-healing functionality to compensate for RF dead zones and access point failures.

Flexible Radio Assignment

The software-defined radio automatically adjusts to dual 5 GHz operation, increasing capacity to onboard more users and devices as needed.

HDX High-Density Experience

Award-winning CleanAir technology mitigates Wi-Fi and non-Wi-Fi interference, while ClientLink 4.0 conserves battery life on mobile devices by optimizing signal delivery.

Maintenance

Regular maintenance is crucial for optimal performance and security of your Cisco Aironet access point. This includes monitoring network performance and applying firmware updates.

Firmware Updates

Cisco periodically releases firmware updates that can improve performance, add new features, and address potential security vulnerabilities or operational issues. Always check the official Cisco support website for the latest firmware for your AIR-AP2802I-B-K9C model. Follow the provided instructions carefully for a safe and successful update process.

Troubleshooting

If you encounter issues with your Cisco Aironet 2802I-B-K9C access point, consider the following common troubleshooting steps:

- **Connectivity Issues:** Verify all power and Ethernet cable connections. Ensure the network switch port is active and correctly configured for the access point.
- **Configuration Challenges:** If using Mobility Express, ensure you are following the latest Cisco documentation. Incorrect initial setup can lead to connectivity or performance problems. A factory reset and re-configuration might be necessary in some cases.
- **Poor Performance:** Check for potential RF interference using network analysis tools. Ensure the access point's Radio Resource Management (RRM) is functioning correctly. Consider updating firmware to the latest version.
- **LED Indicators:** Consult the official Cisco documentation for the meaning of different LED states, which can indicate operational status or specific errors.

For advanced troubleshooting, refer to the comprehensive documentation available on the Cisco support website or contact Cisco technical support for assistance.

Technical Specifications

Feature	Specification
RAM	1024 MB
Wireless Type	802.11b, 802.11g, 802.11n, 802.11ac Wave 2
Item Model Number	AIR-AP2802I-B-K9C
Item Weight	3.52 pounds
Product Dimensions (LxWxH)	4 x 9.6 x 9.7 inches
Number of Processors	1
Flash Memory Size	256 MB
Manufacturer	CISCO
ASIN	B01IVE0KV0

Feature	Specification
Date First Available	October 20, 2020

Note: Specifications are subject to change without notice. For the most current information, please refer to the official Cisco product page.

Warranty and Support

For detailed warranty information and technical support, please refer to the official Cisco website or contact your authorized Cisco reseller. It is recommended to keep your purchase receipt and product serial number handy for any support inquiries.