



Release Notes for Cisco Spectrum Expert, Release 4.0

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These release notes describe the open and resolved caveats for the Cisco Spectrum Expert 4.0.

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Introduction

Cisco Spectrum Expert monitors the RF spectrum used by a variety of wireless network and communications technologies, such as Wi-Fi (802.11) WLANs. Spectrum Expert consists of hardware-based Cisco Spectrum Expert Sensor Wi-Fi (Sensor Card) and a GUI-based Cisco Spectrum expert software that provide complete visibility of the RF environment in which wireless network technologies operate.

Cisco Spectrum Expert Features

The Cisco Spectrum Expert provides the following features:

- A combined hardware and software technology that implements Cisco Spectrum Intelligence technology.
- Increased security, reliability, and performance of the 802.11 WLAN system.

Spectrum Expert consists of two primary components:

- Cisco Spectrum Expert Sensor Wi-Fi (Sensor Card)—Spectrum sensors provide the hardware foundations for Cisco Spectrum Intelligence. Each Sensor card incorporates SAgE ASIC, which is a powerful spectrum-analyzer-on-a-chip. SAgE provides full visibility for the RF spectrum in the unlicensed bands where Wi-Fi WLANs operate.
- Cisco Spectrum Expert Software—The Spectrum Expert Software analyzes data from the sensor and provides a GUI-based view of network and RF activity.

Requirements for Cisco Spectrum Expert

System requirements include for Cisco Spectrum Expert are as follows:

- Notebook computer with:
 - Pentium series processor running at 1 GHz or faster
 - Windows Vista Business or Windows XP (SP2 or later) or Windows 7.0—All 32-bit editions only
 - 256 MB of RAM required (512 MB strongly recommended)
 - Display resolution of 800 600 or higher (1024 x 768 recommended)
 - 30 MB free disk space
 - Available Sensor card slot
 - 802.11 capability (recommended)

Important Notes

This section describes the important information about Spectrum Expert 4.0.

Supported Cards

Spectrum expert 4.0 only supports second generation cardbus adapters which can be identified most easily by the serial number. The SAgE1 first generation card can be identified by the five character hexadecimal serial number. The SAgE2 second generation card can be identified by the eleven character alpha numeric serial number (cisco standard).

Spectrum expert 4.0 aligns the cardbus based product with the CleanAir AP based product set for features, metrics and classified devices.

Supported Operating System

Spectrum Expert 4.0 supports the following operating systems:

- Windows 7
- Windows Vista
- Windows XP

New Features

This section introduces the new features about Spectrum Expert 4.0.

- AirQuality (AQ) information—AirQuality is an indication of the amount of Wi-Fi channel bandwidth being consumed by non Wi-Fi interference. A maximum value of 100 indicates there is no interference detected, a value of 75 indicates that 25% of the channel capacity is consumed by non Wi-Fi interference.
- Severity Information—Severity Information is the value of interference of an Interferer device. A maximum value of 100 indicates extremely severe interference that is significantly impacting Wi-Fi performance. The range is between 1 and 100.
- The following are the set of new device classifiers:
 - Radar
 - WiMax fixed
 - WiMax mobile
 - Zigbee (802.15.4)
 - Motorola Canopy
 - WiFi Inverted
 - WiFi invalid channel
 - SuperAG
 - Xbox
- Connect to Remote AP 3500 in Spectrum Expert Connect Mode. Spectrum Expert Connect Mode now supports up to three simultaneous connections.
- Support for Windows 7—All 32-bit editions only.

Caveats

This section lists open and resolved caveats for Cisco Spectrum Expert.

Open Caveats

These caveats are open in Cisco Spectrum Expert software release 4.0.

Table 1 **Open Caveats**

ID Number	Caveat Title
CSCso07572	The Japanese Regulatory Domain channels are incorrect.
CSCso07707	The JA 4.9 GHz band is different from the U.S. public service band.
CSCti06827	Air Quality showing out of range values when connected to remote AP.
CSCtj02379	Bluetooth device count is not matching for tree view and pie chart.
CSCtk53202	The Wi Fi invalid channel is not shown on the pie chart while it is shown on the tree view.
CSCsz43607	The Wi-Fi status indicator does not display correctly.

Resolved Caveats

These caveats are resolved in Cisco Spectrum Expert software release 4.0.

Table 2 **Resolved Caveats**

ID Number	Caveat Title
CSCsq12721	WCS-integration affected channels are not shown for dect phone.
CSCsx78867	SAGE 2 serial number is displayed incorrectly in the help.

Troubleshooting

For the most up-to-date, detailed troubleshooting information, refer to the Cisco TAC website at the following location:

<http://www.cisco.com/tac>

Click **Technology Support**, select **Wireless** from the menu on the left, click **Wireless Spectrum Analyzer** and click **Cisco Spectrum Expert**.

Related Documentation

For information on the Cisco Spectrum Expert, refer to the *Cisco Spectrum Expert Users Guide*, the *Cisco Spectrum Expert Quick Start Guide*, and the *Cisco Spectrum Expert Online Help*.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

Subscribe to the *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS Version 2.0.

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