Release Notes for Cisco Spectrum Expert, Release 4.1.11

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These release notes describe the open and resolved caveats for Cisco Spectrum Expert 4.1.11 release.

Contents

These release notes contain the following sections:

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

  The SAgE ASIC is in its second generation. Cisco Spectrum Expert Software support for the two versions of the Sensor Card requires specific versions of the application:

  - SAgE 2 support as of Spectrum Expert 4.0.68 and later releases
  - SAgE 1 support as of Spectrum Expert 3.3.52 and earlier releases

  Cisco CleanAir–enabled Access Points

  - Cisco Aironet 3500 Series Access Points—This access point was introduced in the Cisco Wireless LAN Controller release 7.0.98.0. The 7.0.98.0 release required CleanAir-enabled access points to be in SE Connect mode to work with Cisco Spectrum Expert application. This support was enhanced to include support for Local and Monitor modes in Cisco Wireless LAN Controller 7.0.116.0 release.
  - Cisco Aironet 3600 Series Access Points—This access point was introduced with Cisco Wireless LAN Controller software release 7.1.91.0 and supported Cisco Spectrum Expert with the access point SE Connect, Local, and Monitor modes.

Note The Cisco 3600 Access Point was introduced in Cisco Wireless LAN Controller 7.1.91.0 release. If your network deployment uses Cisco 3600 Access Points with release 7.1.91.0, we highly recommend that you upgrade to the Cisco Wireless LAN Controller 7.2.103.0 release.

See the Cisco Wireless Solutions Software Compatibility Matrix for more information on supported controller software release for the access points.

Note Spectrum Expert release 4.1 supports only the second generation Cisco production sensor cards. The cards can be identified by the model number of 210c and an 11–character alphanumeric serial number. Older cards can be used and are supported in 3.3.52 version of Spectrum Expert. Spectrum Expert version 4.0 and later is not supported with SAgE1 card. If users try to use Specturm Expert 4.0 version with a SAgE1 card, an error is displayed.

Requirements for Cisco Spectrum Expert

System requirements 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 x 600 or higher (1024 x 768 recommended)
  - 30 MB free disk space
  - Available Sensor card slot
  - 802.11 capability (recommended)

What's New

Spectrum Expert is now supported when the access point is set to either SE-Connect, Monitor, or Local mode. In the previous releases, the support was provided only when the access point was SE-Connect mode.

Caveats

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

Open Caveats

These caveats are open in the Cisco Spectrum Expert, release 4.1.11:

Table 1-1 Open Caveats

Bug ID	Description
CSCso07572	Japan regulatory domain channels incorrect. **Symptom**: Japanese regulatory domain channels are incorrectly displayed. **Condition**: The Japanese regulatory domain channels are incorrectly displayed when viewed under **Tools > Settings > Band and Channel Settings** of the Spectrum Expert application. **Workaround**: Change it manually. See the Spectrum Expert Online Help for more information on configuring the regulatory domains.
CSCso07707	JA 4.9 GHz band different from US public service band. **Symptom**: JA 4.9 band is different from US public service band. **Conditions**: The JA 4.9 band is displayed incorrectly under **Tools > Settings > Band and Channel Settings** of the Spectrum Expert application. **Workaround**: None.
CSCtx20221	The Spectrum Expert application is disconnected after being in use for 12–15 minutes on Microsoft Windows VM installed on Apple Mac OS. **Symptom**: Spectrum Expert application does not work after 12–15 minutes. **Condition**: Spectrum Expert installed in a Microsoft Windows virtual machine on Apple Mac OS. **Workaround**: This happens due to memory issues on the virtual machine. Use Spectrum Expert with the supported version of Microsoft Windows.
CSCtx22452	Users are unable to add SE 4.1.11 to NCS 1.0.0.29. **Symptom**: Spectrum Expert users are unable to add SP 4.1.11 to NCS 1.0.29. **Condition**: Exceptions are displayed when SE is added to machine that is installed with NCS 1.0.0.29. **Workaround**: Configure Spectrum Expert as a wired client.

Resolved Caveats

These caveats are resolved in Cisco Spectrum Expert, release 4.1.11.

Table 1-2 Resolved Caveats

Bug ID	Description
CSCth14050	Plots/Spectrogram do not align data correctly on plots in local and monitor mode.
CSCti06839	Air Quality not described correctly in Help.
CSCtj04127	When using 5 GHz, the connected mode displays 2.4 GHz channels in swept plots.
CSCtk53187	When AP is in local mode and SE is launched from the b radio, a few graphics are not visible.
CSCtk53202	When an AP is connected in SE-Connect mode and SE is launched from a radio, the Wi–Fi invalid device is not shown on pie chart but it is shown on tree view.
CSCtt39998	Channel Alignment incorrect when SE is connected to AP in LMAP.
CSCtw98906	Labels for Bands should be constructed dynamically.

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,* 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

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