AirMagnet Spectrum XT 3.9
Release Notes

June 2017

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Introduction

This *Release Notes* highlights the new features and known issues in this AirMagnet Spectrum XT v.3.9 release. It also provides basic instructions and important notes on the installation and operation of the software.

Important Notes

- Spectrum XT can capture and display both spectrum and Wi-Fi data, provided that both an AirMagnet-supported Wi-Fi adapter and spectrum adapter are installed and enabled on the same computer on which the application is installed. The use of a Wi-Fi Adapter is optional.

- Spectrum XT v3.8 and above uses a new licensing signature and as a result, will not be recognized by AirMagnet Survey PRO v8.6 and earlier versions for Survey integration.

- NETSCOUT 802.11a/b/g/n/ac 3x3 Express Card Adapter (Model AM/C1097) is not supported on Microsoft Windows 32-bit operating systems or Parallels and VMware Fusion virtual computers.

- Certain third-party applications installed on your laptop PC may cause Spectrum XT to malfunction. Table 1 identifies those applications and provides a workaround for each of them.

Table 1: Problem-Causing Applications and Their Remedial Actions

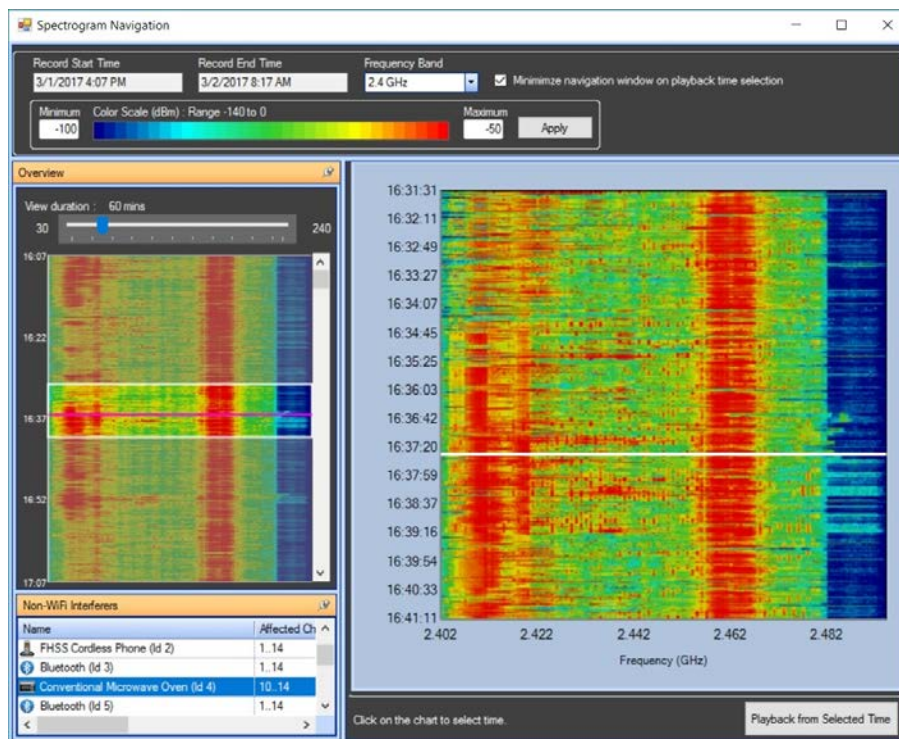| If you have installed	Do this
AT&T® Global Network Client	Disable the AGN Client or disable the AGN Filter Interface in Windows Wireless Networks.
Symantec® Endpoint Protection	Disable Network Threat Protection in Symantec Endpoint Protection.
Cisco® Secure Services Client	Disable the CSS Client (Open CSS Client, and press Alt-C or deselect Enable Client in Settings).

New Features

This section explains the new features and enhancements implemented in the AirMagnet Spectrum XT v3.9 release.

Spectrogram Navigation

Spectrogram Navigation allows you to move within a capture file by selecting the time of interest on a spectrogram representation of the entire capture. During Playback you can select what portion of the recording to analyze. After making a selection, the recording will move to that exact spot and update all the visible charts.

This feature can be utilized by following these steps:
1. Check the Capture Spectrogram Navigation data check box on the tab Configure>Record Options.
2. During Playback, click the Spectrogram Navigation icon on the toolbar. The Spectrum Navigation window appears.

3. The left-hand portion of the Spectrogram Navigation window provides an overview of the current recording. It allows you to select a portion of the recording to review in more detail, which when selected, appears on the right-hand side of the window.
4. Use the slider at the top left to increase or decrease the amount of time (in minutes) for which data is displayed in the Overview window on the left. If the recording is shorter than 30 minutes, the slider is not available.
5. Click an item on the Non-WiFi Interferers portion on the bottom left to turn on an indication showing where that interferer was active.
6. When done, click Playback from Selected Time to playback the time you have selected.

Adding Notes to a Capture File

Often times when troubleshooting an RF issue, it can be helpful to annotate something that has happened during troubleshooting. In 3.9 Spectrum XT allows the user to create and save these annotations directly into a capture file in the form of short notes.

To add a note during the recording and playback of a session:
1. During a recording session, click the Add Note button
2. When you click this button, a text box will appear
3. Enter text in the Description field with a maximum of 512 characters
4. Select OK, and the note gets added to the recording at the current timestamp

All notes are saved with the recording to the bundled .amt file. During playback the list of notes displays under the Notes tab in the "Play from Selected Time" window. When the timestamp of a note is reached in a recording, a popup window will display the contents of the note.

DFS Channel Switch Notification

As part of their Radar avoidance algorithms, Access Points will change channel if they detect a radar signal on the channel they are operating on. Spectrum XT can now be configured to display a notification similar to the user whenever an AP operating on a Dynamic Frequency Selection (DFS) Channel switches to a different channel. This feature is enabled by default.

Support for 802.11ac USB adapters

This release adds support for the following 802.11ac USB adapters:

Vendor	Adapter Model
NETSCOUT	▪ NETSCOUT AM/D1080
Proxim	▪ Proxim Orinoco 9100
Edimax	▪ Edimax EW-7833UAC AC1750
Alfa	▪ Alfa AWUS1900

When using these adapters, please be aware of the following:

- Noise and SNR measurements are not available on these 802.11ac adapters.

- As USB3.0 signaling is known to cause interference in the 2.4GHz band, AirMagnet Spectrum XT will force the adapter to USB 2.0 operation. Windows will occasionally take time to switch operating modes and reload an adapter if the mode chosen is not the mode the card initially comes up as.

- To utilize these adapters, installation of the NETSCOUT driver is required. After installing the application, navigate to the chosen installation folder. You will find a sub-folder there titled NTCTUSBDriverInstaller. Run *setup.exe* within that folder to install NETSCOUT's preferred driver.

System Requirements

This section lists the minimum system requirements of the platforms on which AirMagnet Spectrum XT can be installed and operated.

Laptop /Tablet PC

- Operating Systems: Microsoft® Windows 7 Enterprise/Professional/Ultimate 64-bit, or Microsoft Windows 8.1 Pro/Enterprise 64-bit or Microsoft® Windows 10 Pro/Enterprise 64-bit.
- Intel® Core™ 2 Duo 2.00 GHz (Intel® Core™ i5 or higher recommended).
- 2 GB RAM required (4 GB recommended)
- 250 MB free hard disk space.
- Microsoft .NET framework 4.6.1.

Apple® MacBook® Pro

- Operating Systems: MAC OS X v10.9 (or higher) running a supported Windows OS (as noted under Laptop/Notebook PC/Tablet PC section) using Boot Camp®
- Intel®-based 2.2 GHz Core 2 Duo or higher.
- 2 GB RAM required (4 GB recommended)
- 250 MB free hard disk space.
- Microsoft .NET framework 4.6.1.

NETSCOUT OptiView® XG Network Analysis Tablet

This Spectrum XT v3.9 release also supports NETSCOUT OptiView XG Network Analysis Tablets running Microsoft® Windows® 7 Professional SP1 64-bit operating system or Microsoft Windows 10 Professional 64-bit operating system.

Supported Devices for Additional Wi-Fi Analysis

AirMagnet Spectrum XT offers Wi-Fi analysis features in addition to the spectrum features supported by the AirMagnet Spectrum USB adapter.

Note: However, keep in mind that an AirMagnet Spectrum USB adapter is required when running AirMagnet Spectrum XT. The application will not work without a supported spectrum USB adapter.

The wireless network adapters supported and tested by NETSCOUT are listed at
http://enterprise.netscout.com/enterprise-network/wireless-network/airmagnet-spectrum-xt#supported_adapters

Software Installation

Notes: You must have Administrator rights (log on as an administrator) to install and run AirMagnet Spectrum XT. Refer to Windows Help and Support to learn about the Administrator account type.
If you have a current support contract, the download is the most current version of the product, otherwise it is the version you are entitled to download.

1. Run the application installer:

    - **CD installation:** Insert the CD in the PC's CD-ROM drive. The CD will direct you to your MyAirMagnet account where you can register the product and download the software.
    - **Download installation:** From the Registered Products page of your My AirMagnet account, click the software download and run or save the file. If the file was saved, double-click the *.exe* file to begin running the installer.

2. From the installation screen, select the option to install the application.

3. Agree to the Software License Agreement.

Note: To proceed with installation, you must agree to the Software License Agreement.

4. Set the installation destination folder. Accept the Program Files default or browse to a different location.

5. Click **Finish** to complete the installation.   The system will give you the choice to restart now or later. NETSCOUT recommends you click **Restart now**.

Bug Fixes

This section contains the product defects fixed in this release as listed in Table 2.

Table 2: Bug Fixes

Bug #	Description
DE16536	AP Alias name import does not work correctly if MAC addresses are in lower case.

Known Issues

This section contains the main known issues found in this release, as listed in Table 3.

Table 3: Known Issues

Bug #	Description
DE12617	The 5-GHz/Mixed mode FFT Graph freezes after launching WiFi Analyzer with Spectrum Integration enabled. The workaround is to switch to another band, and then switch back or click the **Reset** button.
DE12619	AP association is lost in Survey after you choose to use the NETSCOUT 802.11a/b/g/n/ac 3x3 Express Card Adapter Kit (Model AM/C1097) upon launching XT. The workaround is to avoid selecting this adapter for Spectrum XT.
DE7902	If Spectrum XT is unable to detect Bluetooth from the mobile devices, NETSCOUT recommends you update the driver of your laptop hardware to its latest version.
DE12387	Reports exported in *editable.rtf* format show a number of formatting issues.
DE563	You may encounter a situation where you are unable to use the Find Tool on a device group. The current workaround is to reset the application and allow the group to be redetected before starting the Find Tool.
DE9572	For older recordings (pre-3.6.1), the Duty Cycle values may not be reflected accurately. A new recording will not exhibit this behavior.
DE15347	The number of APs shown at the end of the playback do not match.
DE15484	XT integration with Survey 8.6 and earlier will not work due to those versions of Survey checking for an old signature while XT v3.8 uses a new signature.
	NETSCOUT suggests the following workaround for the integration issue with earlier builds of Survey: Make a copy of an older XT license (Spectrum XT v.3.6.2 and earlier) and save it. Name the older license file appropriately indicating it's an older license meant for Survey 8.6 Spectrum Integration. Paste the copy of the older license into the XT installation folder after installing XT v3.8. There should be two versions of the license, an older copy for Survey 8.6 Spectrum Integration and a newer copy for running XT v3.8.
DE15619	XT stops working when you try to save a recording after cancelling a computer shutdown.
DE16058	Choosing to export to csv does not work for the FFT graph
DE16068	Cannot print report in landscape mode. Selecting to print in landscape mode in printer option will still print reports in Portrait mode.
DE16819	Downloading the Viewer Only license from MyAirMagnet and copying it to your installation directory results in and invalid signature error. *Workaround: Viewer license file downloaded via application does NOT have this issue.*

Release History

- 06/2017 AirMagnet Spectrum XT 3.9
- 08/2016 AirMagnet Spectrum XT 3.8
- 08/2015 AirMagnet Spectrum XT 3.7
- 09/2014 AirMagnet Spectrum XT 3.6.2
- 05/2013 AirMagnet Spectrum XT 3.6.1

Technical Support Resources

If you need help for this AirMagnet Spectrum XT 3.9 release, contact NETSCOUT Enterprise Solutions, as follows:

Contact Venue	Description
Web:	http://enterprise.netscout.com/contact
E-mail:	CustomerCare@netscout.com
Phone:	1-888-357-7667

Note: *International and global support phone numbers are available at http://enterprise.netscout.com/contact*