AirMagnet WiFi Analyzer PRO 11.3
Release Notes

June 2017

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Introduction

This *Release Notes* highlights the new features and major known issues in the AirMagnet WiFi Analyzer PRO 11.3 release. It also provides basic instructions and important notes regarding the installation and operation of the software.

Important Notes

- As in the previous 11.x releases, AirMagnet WiFi Analyzer no longer supports the following wireless network adapters. References to these adapters are removed from WiFi Analyzer's Adapter Check Utility.

Vendor	Adapter Model
AirMagnet, Inc.	▪ AirMagnet 802.11n PCCard C1060
D-Link	▪ D-Link Xtreme N (DWA-160)
NETSCOUT	▪ NETSCOUT 802.11n PCCard
NEC	▪ NEC Warpstar Aterm WL300NC
Intel	▪ Intel® Wireless Wi-Fi Link 4965AGN ▪ Intel® Wi-Fi Link 5100 Series ▪ Intel® Wi-Fi Link 5300 Wireless Network Adapter
Ubiquiti Networks	▪ Ubiquiti Networks SR71-USB

- Intel® Centrino® Advanced-N 6200 IEEE 802.11a/b/g/n wireless network adapter does not support Microsoft Windows 8/8.1/ or 10 operating systems.
- AirMagnet WiFi Analyzer's legacy Throughput Test feature is not available for the NETSCOUT 802.11a/b/g/n/ac 3x3 Express Card Adapter (C1097) or internal MacBook Pro 802.11ac adapters.
- You *may* need to reinstall the Proxim USB wireless network adapter driver if you use the Proxim USB wireless network adapter on a computer with an operating system that has been upgraded from Windows 7 to Windows 10. Otherwise, you may not be able to start AirMagnet WiFi Analyzer.
- You must use the "Repair" option when upgrading from a version of the application earlier than v11.0. Upon completion of the installation, you must manually delete the old license file. Go to *C:\Program Files (x86)\AirMagnet*

Inc\AirMagnet Laptop and delete the *.lic* file. Once you have deleted the file, launch the application and follow the prompts to download a new license.

- Removing an active external Wi-Fi adapter while running AirMagnet WiFi Analyzer may cause the application to become unstable.

- Enabling third-party decodes can slow down the performance of AirMagnet WiFi Analyzer.

- Due to the nature of MIMO signaling, OptiView XG is unable to reliably receive 802.11n or 802.11ac data traffic when using the external flag antenna, which prevents MIMO frames from being received. In general, you can obtain the best find results when leveraging management frames because they are always sent at the lowest possible data rate. The more complex the data, the lower the apparent signal strength of the packet. Thus if you use all packets, not only will your signal strength vary with distance, but it will vary depending on how much and what type of data is being sent by the AP (DE11922).

- If you have a pre-11.0.1 version of AirMagnet WiFi Analyzer and Spectrum XT 3.8, you *MUST* apply the following workaround to take advantage of the benefits of the WiFi Analyzer-Spectrum XT integration feature:

  1. Rename the existing Spectrum XT license file under the Spectrum XT installed directory, for example, rename it to: *B4070-0428xxxx_old.lic*.

  2. Upgrade the existing Spectrum XT to the latest V3.8 release, and then download the latest version of the Spectrum XT license.

  3. Start AirMagnet WiFi Analyzer, making sure that Spectrum XT integration is enabled. *If Spectrum XT integration is NOT enabled when WiFi Analyzer is launched, enable it and then restart WiFi Analyzer.*

New Feature and Enhancement

This section contains the new feature and enhancement implemented in the AirMagnet WiFi Analyzer 11.3 release.

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, WiFi Analyzer will not indicate noise values when using these adapters accordingly.

- As USB3.0 signaling is known to cause interference in the 2.4GHz band, WiFi Analyzer PRO will ask which mode of operation is desired when launching the tool, USB 2.0 or USB 3.0. 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. When launching in multi-adapter mode with more than one 11ac USB adapter, 2.0 will be assumed for all adapters.

- 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 explains running AirMagnet WiFi Analyzer's minimum system requirements.

Laptop and Tablet PC

- Application 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)

- 4 GB memory or higher.

- 800 MB free hard disk space.

- An ExpressCard slot or USB port; or an AirMagnet-supported internal WLAN adapter

- Multiple slots in the PC for using multiple adapters. AirMagnet recommends the use of its multi-adapter kit.

- AirMagnet-supported wireless network adapter(s).

- Optional spectrum adapter and license (required for viewing spectrum data and non-Wi-Fi devices; AirMagnet WiFi Analyzer Pro only). Integration supported with AirMagnet Spectrum XT.

Note: AirMagnet Spectrum XT adapter is in the USB form factor.

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 CPU 2.0 GHz or higher.

- 4 GB memory or higher.

- 800 MB free hard disk space.

- An internal Broadcom 802.11ac WLAN adapter (MacBook 2013 and 2014 models), an Atheros-based Airport Extreme 802.11n WLAN adapter, or a USB port (whichever applicable).

- Multiple slots in the PC when using multiple adapters. AirMagnet recommends the use of its multi-adapter kit.

- Optional spectrum adapter and license (required for viewing spectrum data and non-Wi-Fi devices; AirMagnet WiFi Analyzer Pro only). Integration supported with AirMagnet Spectrum XT.

Note: AirMagnet Spectrum XT adapter is in the USB form factor.

NETSCOUT OptiView XG Network Analysis Tablet

This Wi-Fi Analyzer 11.3 release also supports NETSCOUT OptiView XG Network Analysis Tablets running Microsoft® Windows® 7 Professional SP1 64-bit operating system or Windows 10 Professional 64-bit operating system.

Bug Fixes

This section contains the product defects fixed in this release.

Defect ID	Description
DE15472	Cannot perform Active tests to an SSID which contains the special character '&'
DE15734 / DE15793	WFA experiences stability issues on Windows 10 Anniversary Edition update
DE16401	Decode of WMM parameter in beacon does not provide U-APSD value

Known Issues

This section contains the major known issues discovered in this release.

Defect ID	Description

DE2645	The number of alarms and total frames reported when reloading a capture file can differ from what was originally reported in a live capture.
DE3226	The WiFi Tools coverage sound setting may beep regardless of whether the signal is below or above minimum service level.
DE3524	The application may unexpectedly stop scanning while using the 802.11 **Tools>Roaming** function.
DE3603	The Y-axis values on the "Spectrum Real Time FFT" graph is incorrectly labeled "db" instead of "dBm".
DE10138	In the Decodes view, the frame counts for 802.11ac traffic may not be identical when you stop a capture, save the same capture, and open the same capture.
DE10677	Invalid station MAC addresses may appear in high-density 802.11ac traffic environments.
DE10910	With the 3x3 802.11ac network adapters, you may see some devices on Channel 1 when viewing devices on the Start page in the 5-GHz band.
DE10960	In multi-adapter mode, when the channel Scan configuration for a 3x3 802.11ac network adapter is changed and you toggle between the Channels page and the Tools page, the channel shown in channel details may not match the channel shown in the left panel.
DE11036	When playing back a capture file in the Tools Analysis page, the SGI and AMPDU graphs may not match what was observed during a live capture.
DE11079	The application may stop responding when loading a single-adapter capture file with three adapters active. To view a single-adapter capture file, restart the application and select one adapter only.
DE12655	On the Optiview XG with internal 802.11ac network adapters, the application fails to launch when one 802.11ac network adapter is used in combination with one or two Proxim 8494 USB network adapters in a unique multi-adapter mode.
DE12566	VoFi call roaming detection in WiFi Analyzer's Roaming Analysis tab occasionally misses a call roaming event.
DE15548	On some Windows 10 computers, the configuration window's 802.11 tab, and on the Security tab, Security type selections are missing options for WEP and WPA (WPA2 options are there). To connect the WiFi Analyzer to a network supporting one of these security types, just setup a profile for that network in Windows, then the WiFi Analyzer can connect to it.
DE16476	Roaming Detail Page: Unable to view different Roaming Gap types in the Roaming Delay tab when using Fast Load *Workaround: allow full trace to replay (without pressing F4)*
	Note: The following issues are specific to AirMagnet Wi-Fi Analyzer and Spectrum XT integration.
DE12614	On the Optiview XG with internal 802.11ac network adapters, the "Spectrum Real Time FFT 2.4GHz" graph on WiFi Analyzer's Interference screen does not update if WiFi Analyzer and Spectrum XT are operated simultaneously using two Proxim 8494 *USB* network adapters. The workaround is to close the graph and then open it again.
DE13176	Closing Spectrum XT after WiFi Analyzer is launched with the same adapter used by Spectrum XT causes WiFi Analyzer to lose all data on its screen.

Release History

Release Month	Version
6/2017	AirMagnet WiFi Analyzer Pro 11.3
8/2016	AirMagnet WiFi Analyzer Pro 11.2
12/2015	AirMagnet WiFi Analyzer Pro 11.1

| 09/2015 | AirMagnet WiFi Analyzer Pro 11.0.1 |
| 04/2015 | AirMagnet WiFi Analyzer Pro 11.0 |

Technical Support Resources

If you need help for this AirMagnet WiFi Analyzer 11.3 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