

AirMagnet Survey PRO 10.4.0

Release Notes

November 2021

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Introduction

AirMagnet Survey PRO is a powerful, easy-to-use WLAN site survey tool that empowers WLAN professionals with everything they need to plan and survey any 802.11a/b/g/n/ac/ax wireless network.

This *Release Notes* highlight issues addressed in the 10.4.0 release in addition to the new features. It also provides basic instructions and important notes regarding the installation and operation of the software.

Special Notes

- You must uninstall any previous version of AirMagnet Survey using the Control Panel before installing the released version of Survey PRO/Planner 10.4.0. Do not use the 'Repair' function. Using Repair has resulted in unreliable performance in some versions of Windows.
- Note when installing on Windows 8, 8.1, 10, or 11, it is highly recommended to install all available Microsoft updates before installing and running AirMagnet Survey.
- Survey PRO 8.8 and later releases use the *.svdx* file extension for survey data files, which is different from the *.svd* file extension used in all previous releases. **It is important to note that you cannot open .svdx files in any previous version of Survey PRO. If you have done a survey using Survey PRO v8.8 or later, you MUST open the survey data (.svdx) file in Survey PRO 8.8 or later.** You can still open or import survey projects and data files saved in *.svd* format from earlier versions of the application. However, when you open an *.svd* file for the first time in Survey PRO 8.8 or later, the application will first convert the file to the new *.svdx* file format. The conversion may take longer than

just opening a file. You can view the progress of the conversion from the progress bar at the bottom of the screen.

- For AP-on-a-stick surveys performed using Survey PRO 8.7 or older, in which multiple surveys were performed using the same AP, NetAlly recommends merging the survey files in Survey PRO 8.7.* first and then converting them to .svdx format in Survey PRO 9.1 or later. This preserves AP alias names as unique for each source survey.
- When using any of the USB wireless adapters, you may need to re-create the wireless profiles when plugging the same adapter into a different USB port. This is because wireless profiles are stored based on the port, not the adapter itself.
- You must have a Cisco “Plus” license to use the Cisco Prime Infrastructure feature.
- To use preferred 802.11ac USB adapters with this AirMagnet Survey PRO 10.4.0 release, you must have the following versions of the Microsoft Windows operating system:
 - ✓ Microsoft Windows 8 Pro/Enterprise 64-bit
 - ✓ Microsoft Windows 8.1 Pro/Enterprise 64-bit
 - ✓ Microsoft Windows 10 Pro/Enterprise 64-bit
 - ✓ Microsoft Windows 11 Pro/Enterprise 64-bit
- When performing AP-on-a-stick active surveys with an 802.11ac/ax adapter, NetAlly recommends the following configuration scenarios:

Scenario	AP Configuration	Gateway Configuration	Adapter Configuration
1	DHCP server	Yes (using AP's IP address)	DHCP
2	DHCP server	No, not configured	DHCP
3	Not configured as DHCP server; static IP address assigned to AP	No, not configured	Static IP Address (within AP's IP address range)

New Features in v10.4.0

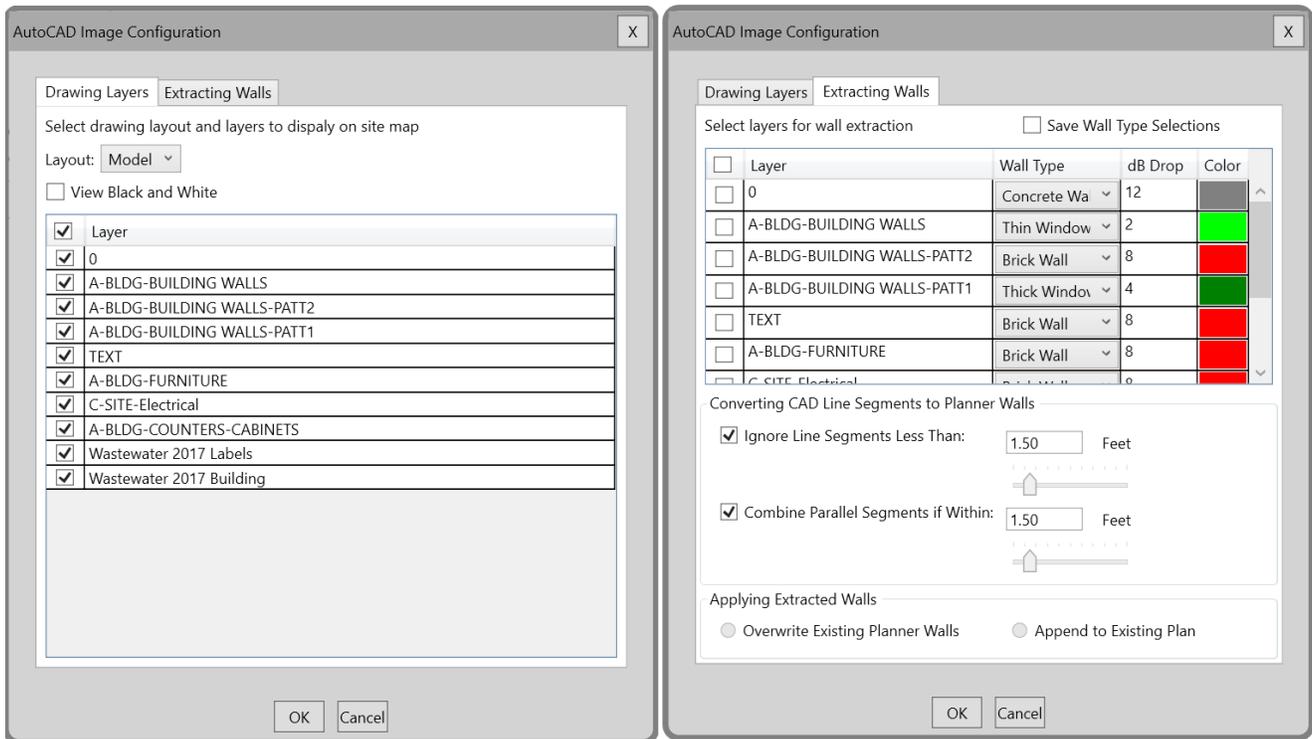
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Automatic Wall Extraction on the Multi-Floor Planner

This release simplifies Wi-Fi network design on multi-floor environments by providing the ability to use the “Automatic Wall Extraction” (AWE) tool on the Multi-Floor Planner. No need to spend time manually drawing walls anymore!

To use the “Automatic Wall Extraction” tool on the Multi-Floor Planner, go to “Tools” and select the “Configure CAD Floor Plan” option. From here you will be given two options:

- Drawing Layers – Allows you to select which CAD layers you want to show on the floor plan. It also provides the option to convert the floor plan image to “Black and White” only, making it easier to visualize walls after they have been added on top of the image.
- Extracting Walls – Allows you to select the CAD layers for which you want to extract walls, and then assign a “Wall Type”. It also provides options to ignore or combine CAD line segments. Options to “Overwrite Existing Planner Walls” or “Append to Existing Plan” are also provided.



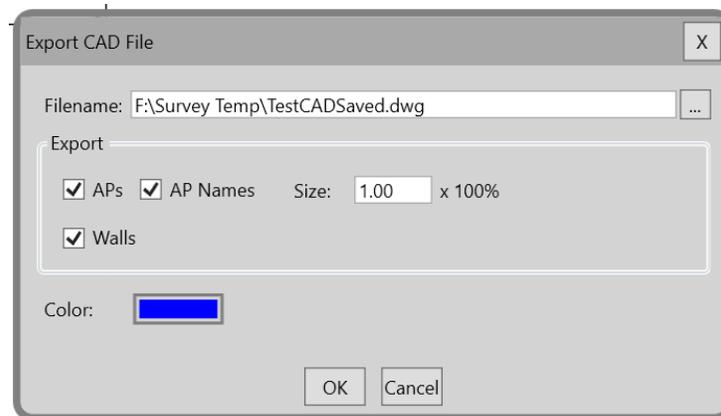
Please keep the following in mind while using this new functionality:

- The “Configure CAD Floor Plan” option is only available while using a CAD drawing (.DWG, .DWF, .DXF).
- The “Configure CAD Floor Plan” option is only available while on the “View 2D” mode.
- To save the “Wall Type” selections made under the “Extracting Walls” section, enable the “Save Wall Type Selections” option.

Export to CAD on Multi-Floor Planner

The Multi-Floor Planner tool will now allow you to export your design directly to a .DWG. Making it easier to share your design with team members or customers and making it easier to import your design into other applications.

To access the new export option, go to “File” and select the “Export to CAD” option. From here, select where to save the new .DWG file and then select if you want to include AP’s, AP Names, and Walls on the file. You will also be given the option to change the size of the AP’s and AP Names before exporting the design.



Microsoft Windows 11 Pro 64-bit Support

The AirMagnet team is happy to announce official support for the latest version of the Microsoft Windows operating system. Starting with this release you will be able to use AirMagnet Survey PRO on any personal computer with Microsoft Windows 11 Pro 64-bit.

Please note that Microsoft Windows 11 Home edition is not supported.

End of Support for Legacy Planner Tool

After years of great service, starting on November 16th, 2021, the AirMagnet team will end support for the legacy single floor Planner tool. We recommend migrating all legacy Planner projects to the Multi-Floor Planner. The legacy Planner tool will be removed from the software in a future release.

End of Support for Proxim 8494 Wi-Fi Adapter

Starting on November 16th, 2021, the AirMagnet team will end support for the following Preferred Wi-Fi Adapter:

- Proxim Orinoco 8494 – 802.11a/b/g/n USB Client Adapter (US/WD/JP Versions)

Note that you will be able to continue using the adapter. Still, no further driver or software updates will be available for it.

New Antenna Patterns

This Survey PRO 10.4.0 release adds the following antenna patterns.

Vendor	Antenna Pattern
Aruba	AP-365 AP-367 AP-500 AP-570
Cambium	XV2-2T0
Extreme	AP305C AP4000
Fortinet	FAP-221E FAP-223E FAP-C24JE FAP-23JF FAP-231F FAP-234F FAP-431F FAP-432F FAP-433F FAP-831F FAP-U231F FAP-U431F FAP-U433F FAP-U221EV FAP-U223EV FAP-U321EV FAP-U323EV FAP-U421EV FAP-U423EV FAP-U422EV FAP-U24JEV
Meraki	MR70
Ruckus	H550 R550 R850 T350C T350D T750 T750SE
Ubiquiti	UAP-HD UAP-SHD UAP-AC-Lite UAP-AC-LR UAP-AC-IW

	UAP-AC-IW-PRO UAP-AC-PRO UAP-IW-HD UAP-AC-M UAP-AC-M-PRO UMA-D UAP-nanoHD UAP-XG UWB-XG UDM UAP-FlexHD UAP-BeaconHD U6 Lite U6 LR U6 Pro
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Bug Fixes

This section covers the defects that have been fixed in this release.

Survey 10.4.0 Release

Defect ID	Description
178758677	Cisco AP-1562d pattern definition issues.
178789881	Fix for Cambium CnPilot e700.
170194528	Wi-Fi card inactive warning message is not displayed.

Known Issues

This section documents the major known issues with this AirMagnet Survey 10.4.0 release.

Defect ID	Description
178103571	Survey Report: Some placed AP icons disappear after running the report a subsequent time.
178103361	Survey Reports: Deleted section is still included in the body of the report.
176064752	Multi-Floor Planner: Unable to move an AP that is in a defined coverage area.

System Requirements

Laptop/Notebook PC/Tablet PC

- Operating Systems: Microsoft Windows 8 Pro/Enterprise 64-bit, Microsoft Windows 8.1 Pro/Enterprise 64-bit, Microsoft Windows 10 Pro/Enterprise 64-bit, or Microsoft Windows 11 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 HDD or SSD space.
- AirMagnet-supported wireless network adapter(s).
- USB port for external adapter use.
- When using multiple adapters, AirMagnet recommends the use of its multi-adapter kit. Otherwise, multiple USB ports in the PC are required.
- Optional AirMagnet Spectrum XT adapter and license for integrated spectrum survey on Survey PRO. This is required for viewing spectrum data and heat map.
- Google Earth must be installed to export the GPS data for outdoor surveys to Google Earth (Survey PRO only).

Apple® MacBook® Pro

- Operating Systems: MAC OS X v10.9 or higher running a supported Windows OS (as noted under the 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 HDD or SSD space.
- USB port for external adapter use.
- AirMagnet-supported wireless network adapter(s).
- When using multiple adapters, AirMagnet recommends the use of its multi-adapter kit. Otherwise, multiple USB ports in the MacBook® Pro are required.
- Optional AirMagnet Spectrum XT adapter and license for integrated spectrum survey on Survey PRO. This is required for viewing spectrum data and heat map.
- Google Earth must be installed to export the GPS data for outdoor surveys to Google Earth (Survey PRO only).

Supported Site Map Image Formats

.bmp, .dib, .dwf, .dwg, .dxf, .emf, .gif, .vsd, .jpg, .wmf, .vdx, and .png.

Guideline for Use of Wi-Fi Adapters

AirMagnet Survey/Planner requires that a Wi-Fi adapter be installed on the same computer running the application to capture Wi-Fi data.

AirMagnet mobile products categorize Wi-Fi adapters into the following types:

- **Preferred Adapters:** These adapters have been tested by AirMagnet and are recommended for use with AirMagnet products. Drivers have been customized for extended feature support. For a complete, up-to-date listing of AirMagnet Preferred wireless adapters, visit <https://www.netally.com/products/airmagnet-survey-pro/#SupportedAdapters>.
- **Other Adapters:** These adapters can be used with AirMagnet Survey PRO but have not been tested by AirMagnet. Drivers have not been customized, will provide limited features, and could provide inaccurate data.

Note: When installing Intel® and USB adapters, it is important that you uncheck the option to install the adapter's client utility in addition to the driver software.

Limitations of Other Network Adapters

Any 802.11 adapter supported by Windows other than the Preferred Adapters falls into the Other network adapters category. They can be used with AirMagnet Survey PRO to perform a survey but have not been tested by AirMagnet. These adapters' drivers have not been customized, provide limited feature support, and could provide inaccurate information. **It is important to note that NetAlly is not responsible for the quality of the test results collected using these adapters.**

The following are noted limitations of generic adapters in AirMagnet Survey.

- No ability to scan specific channels: all channels are scanned. There is no Scan or 802.11 tab under the **File>Configure** menu.
- No noise or signal-to-noise ratio (SNR) measurements.
- Measured PHY data rates in the uplink and downlink directions are not separated. Only a single PHY data rate for the connection is reported.
- No packet retries and loss measurements on active and iPerf surveys.
- iPerf throughput performance may vary, depending on the model of the generic adapter in use.
- Limitations in the wireless channels that they scan: They may only be able to scan channels that are approved for wireless use in a specific country, and unable to scan channels assigned as Dynamic Frequency Selection (DFS) channels.
- Only one 802.11ac adapter can be used when utilizing multiple adapters. Refer to "Utilizing Multiple Adapters" in the *AirMagnet Survey User Guide*.
- There is no roaming control for active and iPerf surveys.
- Due to the inability to disable roaming on the adapter, only the "by SSID" (not by AP) method is available for active and iPerf surveys.

Release History

Release Month	Release Version
07/2020	AirMagnet Survey PRO 10.0.0
12/2020	AirMagnet Survey PRO 10.1.0
01/2021	AirMagnet Survey PRO 10.2.0
05/2021	AirMagnet Survey PRO 10.3.0
07/2021	AirMagnet Survey PRO 10.3.1
11/2021	AirMagnet Survey PRO 10.4.0

Technical Support

If you need help with this AirMagnet Survey PRO 10.4.0 release, contact NetAlly, as follows:

Contact Venue	Description
Web:	https://www.netally.com/support/technical-support/
Phone:	1-844-878-2559 or 1-719-755-0770 and select Option 2

Note: International direct dial phone numbers are available at <https://www.netally.com/contact-us/>.