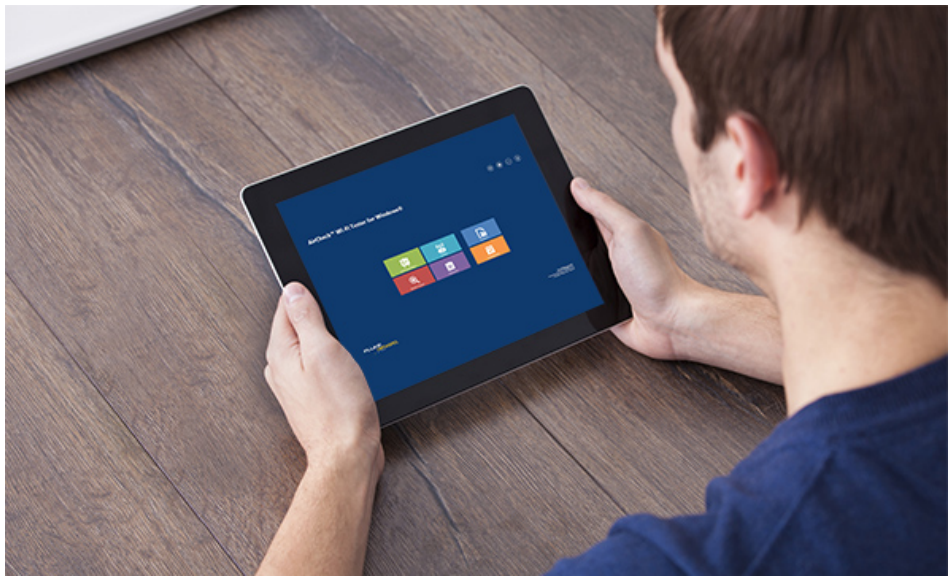
Datasheet: AirCheck™ Wi-Fi Tester for Windows®

AirCheck™ Wi-Fi Tester for Windows® allows frontline technicians to quickly verify and troubleshoot 802.11 a/b/g/n/ac networks. Designed specifically for dispatched troubleshooting, AirCheck Wi-Fi Tester for Windows simplifies wireless troubleshooting by providing the following capabilities:

- *An instant real-time view of the Wi-Fi environment including network availability, utilization, security settings and rogue devices to troubleshoot most common Wi-Fi issues*
- *Single click Pass/Fail assessment of end-to-end network connectivity and Application Performance which enables technicians to confidently validate end - user experience*
- *Site Survey Data Collection - enables technicians to measure true end-user experience resulting in accurate wireless deployments*
- *Standardization capabilities - enables consistency in deployment and troubleshooting procedures across organization which helps eliminate unnecessary guesswork, resulting in faster and more productive deployment and troubleshooting*

AirCheck Wi-Fi Tester for Windows is a first response Wi-Fi troubleshooting software tool with a simple and intuitive interface, specifically designed for frontline technicians to troubleshoot most common Wi-Fi issues quickly and efficiently.

AirCheck Wi-Fi Tester for Windows is affordable, portable, easy to use and allows Enterprise, Carrier Wi-Fi hotspot and residential Wi-Fi deployments with the ability to validate and troubleshoot issues right the first time without costly rework.

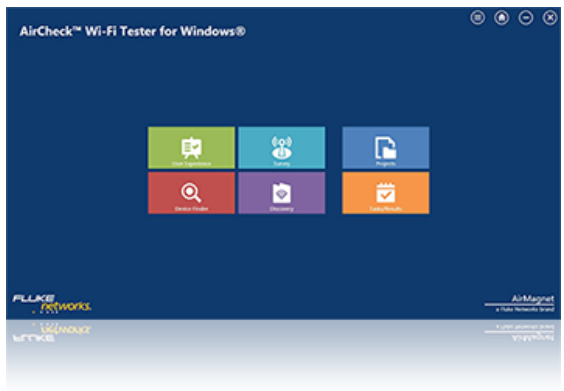


Features

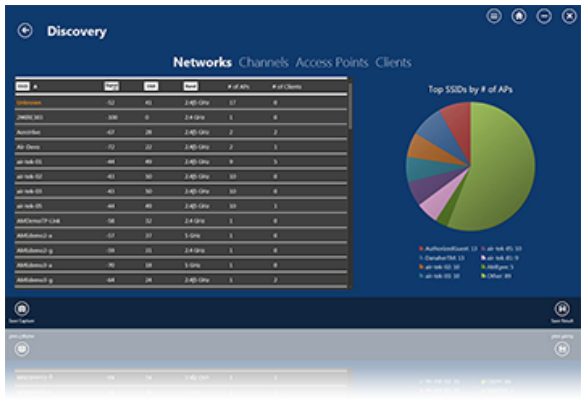
Wi-Fi Network Health Assessment:

AirCheck Wi-Fi Tester for Windows provides a real-time view of the Wi-Fi environment enabling technicians to validate the overall health of a Wi-Fi network and troubleshoot most common Wi-Fi issues such as:

- Connectivity issues to an access point or the internet due to poor coverage or performance
- Frequent disconnections from the Wi-Fi Network
- Poor application performance (e.g.: poor audio and video quality)
- Weak security

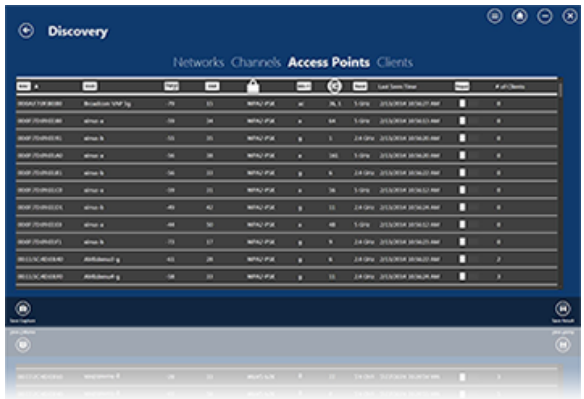


Technicians are empowered with information about:



- Wi-Fi Networks
  Coverage problems and overloaded networks can be detected by viewing a list of the following data for all wireless networks:
  - SSID
  - Signal, Signal-To-Noise Ratio
  - Frequency Band
  - Number of APs and Clients should all be all at the same level of indentation as SSID

- Channels
  Overloaded channels and non-standard channel use violations can be detected by visualizing the following information for each channel:
  - Signal (dBm), Signal-To-Noise Ratio *
  - Utilization*
  - Number of APs and Clients*

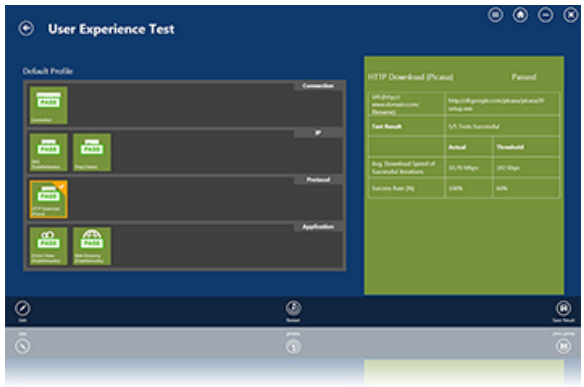


- Access Points
  Misconfigured AP and Rogue APs can be detected by viewing a list of all APs:
  - MAC address, SSID
  - Signal Strength(dBm), Signal-To-Noise Ratio*
  - Security (Open, WEP, WPA, WPA2)
  - Media Type, Channel, Frequency Band
  - Rogue Status
  - Number of associated clients*

- Clients*
  Technicians can view any Wi-Fi client, including smart devices operating in the environment.
  - MAC address, SSID
  - Signal (dBm), Signal-To-Noise Ratio*
  - Security (None, WEP, WPA, Open, WPA2)
  - Media Type, Channel, Frequency Band
  - Model and vendor of the Smart Device

Note: *Proxim Orinoco 8494 802.11a/b/g/n USB adapter (US/WD/JP versions) is required for detecting clients and SNR/channel utilization information.

User Experience Validation:



A single click Pass/Fail assessment of end-to-end network connectivity and performance of key applications allows technicians to confidently validate the end-user experience of the network. This results in a faster and more effective troubleshooting process for the technician. Common Wi-Fi issues such as poor connectivity, frequent disconnections and poor application performance can be identified and resolved with this capability. This comprehensive toolset includes the following:

- End-to-end network connectivity testing
  - DNS
  - Ping
  - Trace

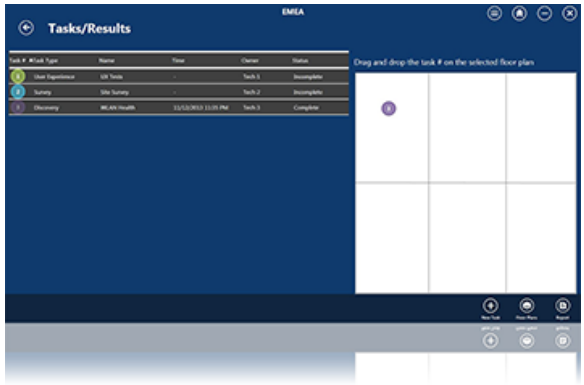
- Application Performance Testing
  - FTP Download
  - HTTP Download
  - Online Video
  - Online Audio
  - Web Browsing

Detailed metrics such as Round Trip Time (average and max), HTTP Download Throughput, and number of interruptions that occurred during execution of the video test can be obtained.

Site Survey Data Collection:

With this solution, technicians have the ability to map not only the RF signal coverage, but also the Wi-Fi throughput (downlink network performance) at every location on the floor. Measuring Wi-Fi throughput, which reflects the “true” end-user experience, allows deployment of accurate wireless networks right the first time and avoids costly network re-designs. AirCheck Wi-Fi Tester for Windows also provides detailed information on the Access Points operating in the environment along with their properties (MAC address, channel, SSID, signal strength). For sites without readily available floor plans, technicians can accelerate their site survey data collection process by using any one of the common floor plans from the built-in library. Technicians can upload their site survey data to AirMagnet Survey PRO, allowing experts or WLAN network designers/installers to perform advanced analysis and reporting.

Standardization of Deployment and Troubleshooting Procedures:

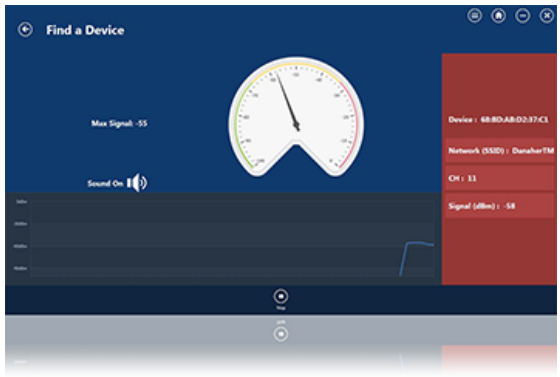


Lack of a standardized workflow across an organization is one of the challenges in network validation and troubleshooting.AirCheck Wi-Fi Tester for Windows offers powerful standardization capabilities to enable consistency in deployment and troubleshooting procedures. This eliminates the unnecessary guesswork resulting in faster and more productive deployment and troubleshooting. Key standardization capabilities include:

- Pre-defined profiles created and deployed across an organization allow technicians to achieve consistency by executing the same battery of tests
- Seamless workflow set up between frontline technicians and upper management
- A project can consist of one or more of the following tasks:
    - Wi-Fi Network Health Assessment
    - Site Survey Data Collection
    - End- User Application Validation
    - Device Finder

These tasks can be assigned to various users and tracked. Technicians have the ability to indicate location of task on the floor map and add annotations such as text, photos, videos and audio notes. Projects, including site survey data, can be easily shared for quick analysis across an organization by sharing via email, Gmail, Evernote®, Dropbox™, etc.

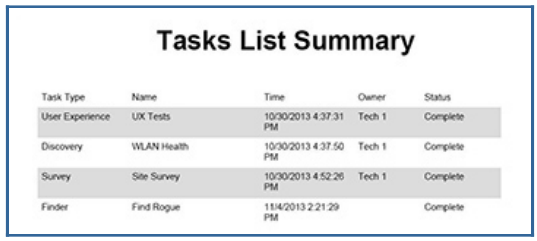
Device Finder:



Devices (including unauthorized devices) that violate predefined policies have an adverse impact on the performance and security of the Wi-Fi network. Access points, PC based clients as well as smart devices can be instantly located with a signal strength meter and a Geiger counter-like device finder that beeps louder as you get closer to the device. So no matter where the violator is hiding, with the AirCheck application, you are guaranteed to locate it.

Built-in Reporting:

A comprehensive report can be generated in PDF format to enable sharing and escalation of information with others including end-user customers, advanced users or upper management. This report details; all the networks, channels, clients and access points seen in the environment, the results of the site survey, application performance tests as well as a list of the rogue devices that have been detected.

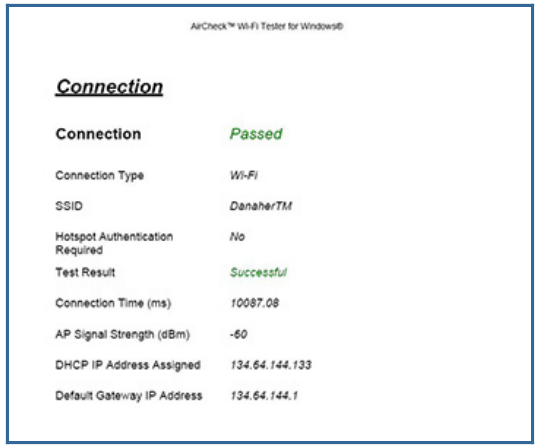


Tasks List Summary

Task Type	Name	Time	Owner	Status
User Experience	UX Tests	10/30/2013 4:37:31 PM	Tech 1	Complete
Discovery	WLAN Health	10/30/2013 4:37:50 PM	Tech 1	Complete
Survey	Site Survey	10/30/2013 4:52:26 PM	Tech 1	Complete
Finder	Find Rogue	11/4/2013 2:21:29 PM		Complete

Accelerating Wi-Fi Issue Escalations:

Issues can be escalated to AirMagnet WiFi Analyzer PRO, a leading tool in the industry for advanced troubleshooting analysis by capturing packets using the Proxim Orinoco 8494 802.11a/b/g/n USB adapter.



AirCheck™ Wi-Fi Tester for Windows®

Connection

Connection	*Passed*
Connection Type	*Wi-Fi*
SSID	*DanaherTM*
Hotspot Authentication Required	*No*
Test Result	*Successful*
Connection Time (ms)	*10087.08*
AP Signal Strength (dBm)	*-60*
DHCP IP Address Assigned	*134.64.144.133*
Default Gateway IP Address	*134.64.144.1*

Minimum System Requirements

Laptop/Notebook PC/Tablet PC

- Windows 7 Pro 32-bit/64-bit, Windows 8 Pro 32-bit/64-bit, or Windows 8.1 Pro 32-bit/64-bit
- Intel® Core i3 or higher
- Memory: 4GB or higher
- 500MB of free hard disk space
- Display Resolution: 1366 x 768 or higher

Models and Accessories

Supported Adapters

Any standard Windows - based wireless adapters can be used with AirCheck Wi-Fi Tester for Windows. Following adapters have been comprehensively tested by AirMagnet and are recommended for use.

802.11 a/b/g/n adapters

- Proxim 8494 802.11 a/b/g/n USB
- Intel Centrino® Ultimate-N 6300
- Intel Centrino Advanced-N 6200
- Intel Centrino Advanced-N 6205

802.11 a/b/g/n and ac adapters

- Netgear A6200 WiFi USB Adapter - 802.11ac Dual Band
- Intel Dual Band Wireless-AC 7260
- Buffalo AirStation™ AC866 Dual Band Wireless USB Adapter
- Intel Centrino Advanced-N 6205

Model	Description
AM/A3000-US	AirCheck Wi-Fi Tester for Windows - For countries that follow FCC & IC; Includes software + 1 unit of AM/C1080-US,PROXIM ORINOCO 8494 802.11A/B/G/N USB ADAPTER
AM/A3000-WD	AirCheck Wi-Fi Tester for Windows - For countries that follow CE; Includes software + 1 unit of AM/C1080-WD,PROXIM ORINOCO 8494 802.11A/B/G/N USB ADAPTER
AM/A3000-JP	AirCheck Wi-Fi Tester For Windows - JP For Japan Only; Includes software + 1 unit of AM/C1080-JP,PROXIM ORINOCO 8494 802.11A/B/G/N USB ADAPTER
GLD-S3000	1 Year Maintenance for AirCheck Wi-Fi Tester for Windows
GLD3-S3000	3 Year Maintenance for AirCheck Wi-Fi Tester for Windows