

VIAVI WiFi Advisor

THE FIRST WIRELESS LAN ANALYZER

The WiFi Advisor consists of a host application (running on an iPad, Android tablet, or the Viavi OneExpert platform) and one or more WFED-300AC test devices.

It is the first test solution to meet the needs of technicians at all skill levels. Providing a new, visually rich approach to testing, its intuitive capabilities enable rapid characterization, optimization, and troubleshooting of highly changeable and vulnerable home WiFi networks.



- Site performance report educates customers
- TrueMargin™ optimizes WiFi site throughput
- Intuitive and easy user interface recommends best channel and optimization steps
- Highly-configurable radio supports 2.4 G 802.11b/g/n and 5 G 802.11a/n/ac up to 3x3 with MIMO
- Associates job- or work-ticket information with site assessment results for export to StrataSync for storage and analysis

It shows a wholehome view of real WiFi performance margin and can deliver easy-to-understand information directly to the end customer.



Troubleshooting and Optimization



Troubleshooting, Optimization, and Site Assessment



CONSOLIDATE YOUR TEST INVESTMENT

The WiFi Advisor is fully integrated with the Viavi OneExpert broadband-to-the-home test platform. This power combination lets you test fiber, the home WiFi network, and either copper or cable.

Flexible Viavi platform architecture helps customers maximize their overall investment in broadband-to-the-home test tools. There are two ways you can consolidate your toolset and minimize both OpEx and CapEx:

- Control a single WiFi Advisor from your OneExpert to do BSSID, spectral, and channel view testing. This lets you avoid purchasing a separate tablet device to host the WiFi Advisor application and reports. The OneExpert hosts the WiFi Advisor application.
- Conduct two-ended testing with a single WiFi Advisor, a tablet, and your OneExpert. Consolidate your tool set and eliminate the need for two WFEDs.

Model 1



Single-Ended Operation

- Troubleshoot common WiFi problems quickly
- SmartChannel Wizard gives WiFi optimization guidance to novice users

Model 2



Dual-Ended Operation

- Whole-home performance testing
- Optimizes AP placement
- Ensures resilient WiFi network installation
- Identifies sources of WiFi degradation
- Educates/sets proper end-user expectations on real WiFi performance

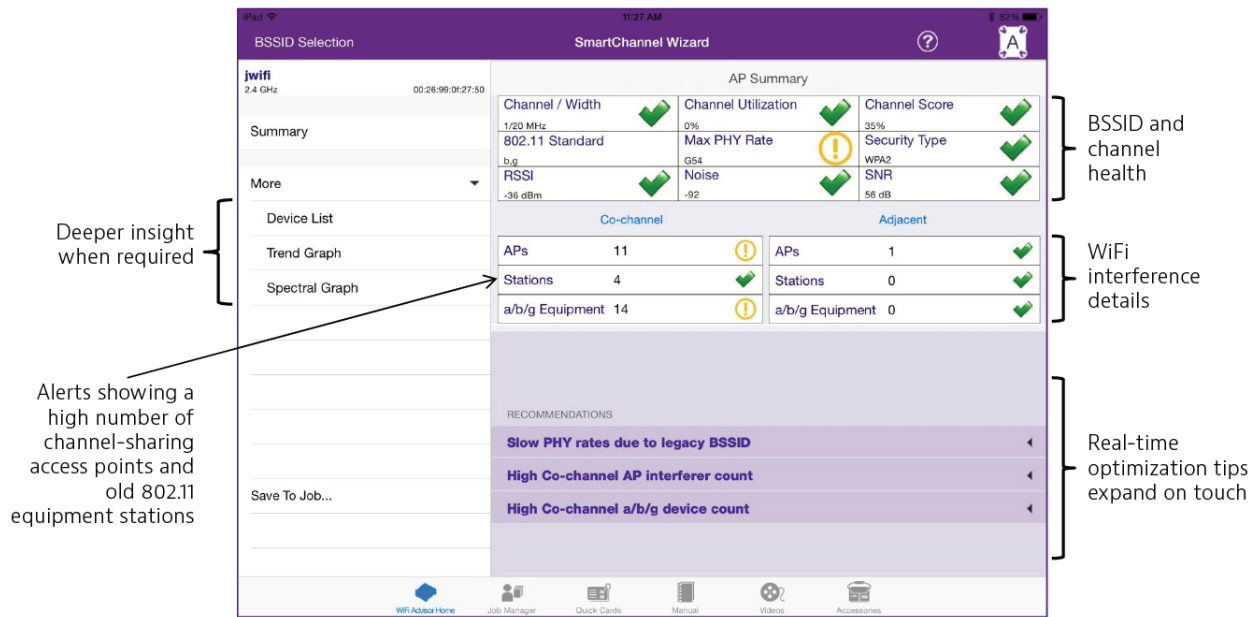
WiFi Advisor use models and OneExpert integration

TROUBLESHOOTING AND OPTIMIZATION

Using a single WFED-300AC device, users can quickly visualize, optimize, and troubleshoot WiFi networks using the Smart Channel Wizard and the complementary BSSID, Channel, and Spectral views. The SmartChannel Wizard summarizes the KPIs and the health of the selected BSSID and the channel in which it resides.

The summary will help novice users and guide them to a resolution for each metric that is not optimal with practical optimization guidance. The wizard sees beyond access point occupancies into the client detail of the entire customer network and the clients or any co-channel-sharing networks.

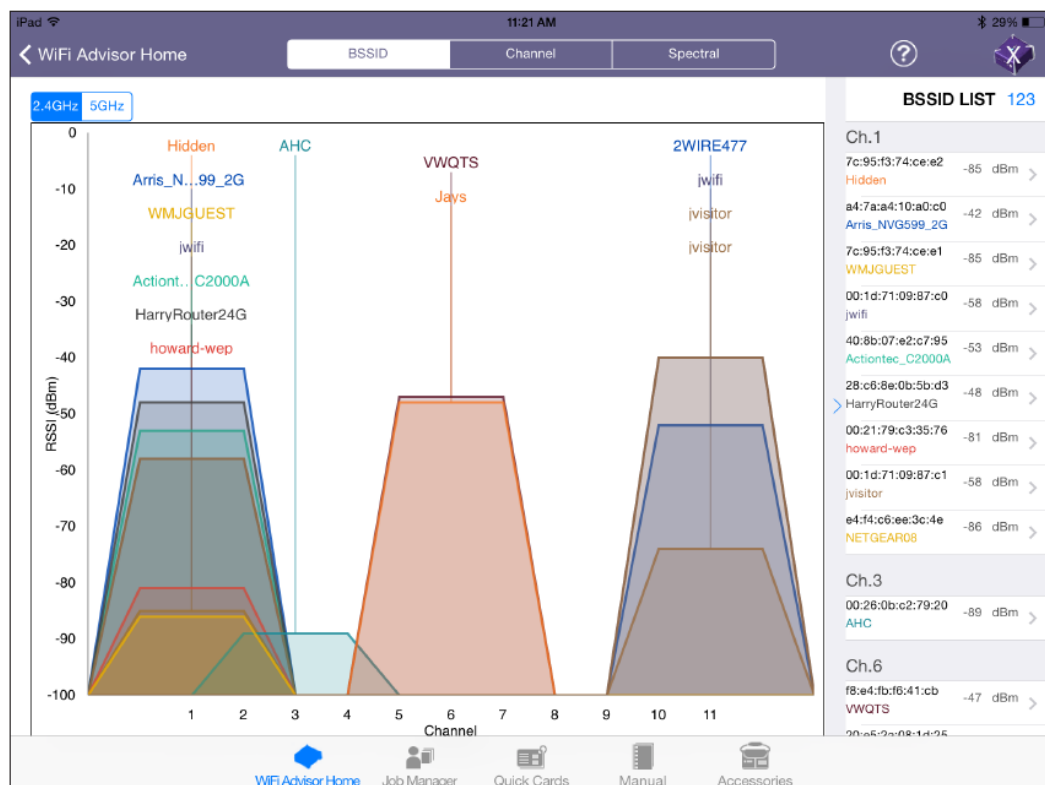
For example, the SmartChannel Wizard figure below shows high channel utilization and a high client station load. It recommends that the channel be changed to avoid the crowd and improve the experienced speed and throughput.



SmartChannel Wizard: built for the WiFi novice

BSSID view provides quick visibility into active wireless networks and identifies the least-crowded channel to use for your access point. The application plots each in-range BSSID by channel and signal strength and identifies access points sharing a channel (co-channel interferers) or overlapping a channel (adjacent interferers) for each channel in the band.

It also displays continuously-updated trend graphs of BSSID signal strength, noise, and channel utilization as the installer moves through the site.



Anzeige der Kanalbelegung in der BSSID-Ansicht

SPECIFICATIONS

WFED-300AC Test Device	
Supported 802.11 standards	2.4 GHz: b/g/n 5 GHz: a/n/ac
Number of streams	1x1, 2x2, 3x3
Maximum achievable PHY rate	1.3 Gbps
Maximum UDP throughput	512 Mbps
Battery life	4 to 6 hours typical use
DC input voltage	+12 V DC \pm 2 V
Maximum DC input current	3 A
Connectors	1 mini USB 2.0 (device) 1 USB 2.0 Type A (host) 1 RJ45 Ethernet 10/100/1000M 12 V DC input
Unit height	65 mm
Unit width	177 mm
Unit depth	154 mm
Weight	0,82 kg
Humidity range	10% to 90% noncondensing
Operating temperature range	0 to +40°C
Storage temperature range	-30 to +60°C
Hazardous materials rating	RoHS-5
Host applications and devices	iPad, Android tablet, and Viavi OneExpert platform
IOS SOFTWARE APPLICATION	
Minimum iOS version	iOS 8.1.0
Minimum iPad hardware	iPad 2, 16 GB
ANDROID TABLET SOFTWARE APPLICATION	
Minimum software version	4.1.x
Recommended hardware	Recommended hardware Samsung Galaxy Tab, Tab A, Tab S, Note, Note Pro Verizon Xplore 8 in or larger
ONEEXPERT PLATFORM	
OneExpert DSL	Minimum software version 4.0.4 Hardware ONX-580
OneExpert CATV	Minimum software version 2.0.0 Hardware ONX-610/620

ORDERING INFORMATION

DESCRIPTION	PART NUMBER
WiFi Advisor standard package: WFED-300AC WiFi Advisor test device, carrying case, USB cable, AC power supply, and power cord	WFED300AC-1PC
WiFi Advisor installer package: two WFED-300AC WiFi Advisor test devices, carrying case, USB cable, two AC power supplies, and two power cords	WFED300AC-2PC
WiFi Advisor test device – 802.11ac 3x3	WFED-300AC
WiFi Advisor case, two-device Capacity	CC-000302
Power supply desktop AC three-pin Connection	AD-21165101
USB cable 6 ft – USB to micro USB	SMARTID-USBCABLE-6FT
Lithium ion battery 4 cell, Rechargeable	SCHMLIONBATT4
VSE interface (iPad Air, WiFi, 16 G)	VSE-INTERFACE