

# AIRMAGNET<sup>®</sup> VoFi Analyzer

## Enabling The Mobile Enterprise

Voice-over-WLAN provides today's mobile enterprise with the opportunity to combine the flexibility of WiFi with the cost-savings of Voice-over-IP. However, voice applications are highly susceptible to network problems and any number of issues can lead to poor voice quality. The AirMagnet VoFi Analyzer offers patent-pending analysis focused on these unique challenges. This new solution tracks the quality of all calls on live, encrypted networks, and automatically identifies the source of voice problems, allowing any enterprise to confidently deploy and operate voice over a WiFi infrastructure.

Core capabilities include:

- *Automatically identifies and tracks all calls in the wireless environment*
- *Scores every call in terms of call-quality using MOS Score and R-Value*
- *Automatically diagnoses the source of voice problems from the phone all the way to the IP-PBX or call manager*
- *Integrates with the IP-PBX or call manager for end-to-end call analysis*
- *Visually correlates call-quality with dozens of critical voice metrics*
- *Professional reports of all voice-related problems*
- *Validate QoS (Quality-of-Service) settings and monitor 802.11e*
- *Provides full functionality on encrypted networks*



*AirMagnet VoFi Call Overview*

### *End-to-End Call Visibility*

A poor VoFi call can have a number of potential sources: the phone, the RF environment, the WLAN itself, QoS settings, the IP-PBX and so on. This complexity makes voice problems particularly challenging and time-consuming to diagnose. The AirMagnet VoFi Analyzer automatically analyzes each of these areas (even on an encrypted network) and identifies the true source of any WiFi voice problem, saving hours of troubleshooting time.

### *Focus on Call Quality*

AirMagnet VoFi displays your network in terms of calls and call quality. AirMagnet's patent-pending technology differentiates between voice and data traffic, and automatically scores every call in terms of R-Value and MOS Score for both sides of a call (to the phone and from the phone). This provides a full history of all calls on the network, and quickly reveals problems that are tied to a particular phone, channel or period in time.

## Simple Investigation Into Voice Problems

### Automated Problem Analysis

AirMagnet VoFi includes a specially adapted version of the AirWISE analysis engine to automatically detect over 30 VoFi call problems. When a problem is detected, an alarm explains the issue in detail, naming the specific phone, AP or channel involved. AirWISE covers a broad set of issues including QoS problems, roaming issues, overloaded devices, fragmentation, one-way audio and much more. This intelligence alone saves network managers hours of troubleshooting time.

### Visual Correlation

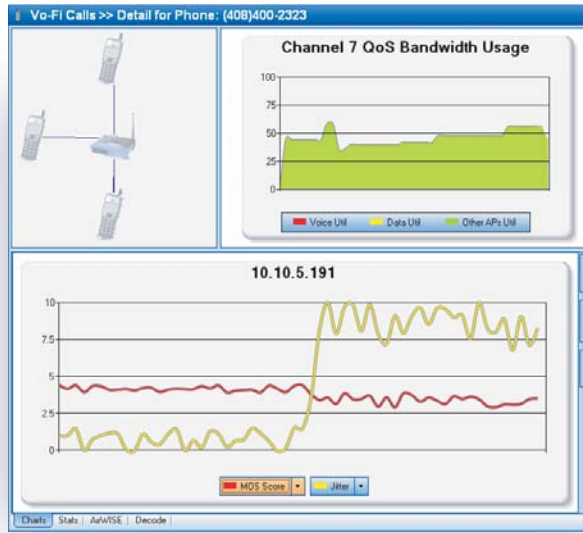
AirMagnet VoFi delivers deep insight into any call by graphically correlating dozens of critical call metrics. For example, you can easily check the impact of packet jitter on end-user experience by plotting jitter rates against MOS Score. Users can choose from a library of pre-built graphs or construct their own from dozens of metrics including CRC errors, fragmentation, active call count, data utilization and much more.

### IP-PBX & Call Manager Integration

With a wired connection, you can connect to your IP-PBX or call manager for end-to-end call tracking. This lets you gather additional call specific information such as the phone number, end user details, call drop reasons and more. AirMagnet includes support for Cisco Call Manager.

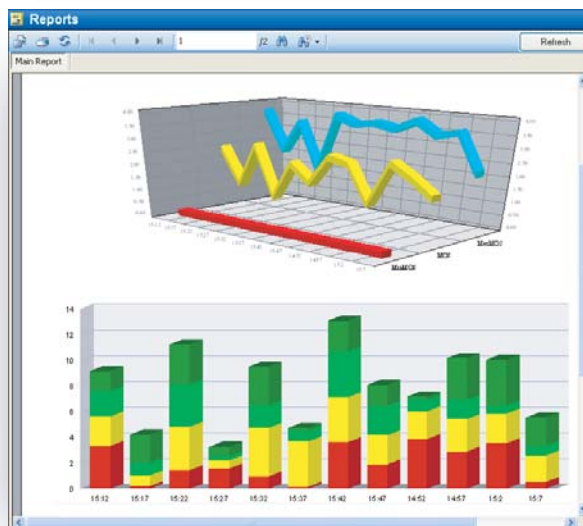
### Reporting

The AirMagnet VoFi solution also includes a built-in reporting module, allowing users to professionally document their troubleshooting sessions. This includes MOS score trending reports, channel reports of voice vs. data, roaming reports, device reports, AirWISE alarm reports and more.



### Call Visibility

AirMagnet VoFi provides unlimited ability to investigate a given call, including a view into all devices competing for AP resources, the breakdown of voice vs. data traffic and the correlation of call quality with dozens of network statistics.



### Documentation

AirMagnet VoFi explains every voice problem in detail, and turns troubleshooting sessions into professional customized reports.

### Packet Details

As always, AirMagnet provides users with the option to view packet level details for their wireless traffic, including the ability to customize device and network level packet filters.

### System Requirements

- Laptop or tablet PC
- Windows XP SP1 or SP2
- Cardbus Type II slot
- 512 Mbytes RAM
- 1 GHz Pentium CPU or equivalent



For more information, contact AirMagnet at 408-400-0200 or [www.AirMagnet.com](http://www.AirMagnet.com)

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