MOTOROLA

RF Design and Management Software:
Motorola EnterprisePlanner™
## Plan and Optimize Multiple Wireless Networks

The large number of wireless frequencies, environmental factors, and network equipment choices presents daunting challenges to even the most experienced wireless network designer. Building a wireless network that delivers exceptional Quality of Service (QoS) and maximum value means designing it for the context in which it operates and the capacity and coverage that your business requires.

Motorola EnterprisePlanner™ enables rapid design of customized wireless networks with the capacity, reliability, and performance required to run the most demanding applications, even in complex RF environments. EnterprisePlanner maximizes wireless network performance, ensuring that your critical wireless applications are effectively deployed and fully functional.

At the heart of EnterprisePlanner is an RF-intelligent, site-specific 2D/3D model of your facility. Motorola's patented predictive software uses this model to accurately simulate your wireless network's coverage and capacity. Using a library of data amassed through a decade of research and thousands of implementations, EnterprisePlanner allows you to graphically visualize the impact of building materials, the intended use of the network, and the sources of radio frequency (RF) interference. As a result, EnterprisePlanner can dramatically reduce wireless network planning, deployment, and operating costs.

Validating Wireless Coverage, Boosting Performance

EnterprisePlanner combines advanced facility modeling and predictive algorithms with intuitive design wizards, providing you the power to efficiently design and simulate a wide range of multi-band indoor and outdoor campus networks including WLAN, 3G, CDMA, GSM, iDEN, WiMAX and user defined frequencies. EnterprisePlanner allows you to import building and site information from a variety of formats including AutoCAD® files, scanned images, and GIS maps. This model becomes RF-intelligent once you map the RF characteristics of interior and exterior walls and other potential obstructions to Motorola's extensive RF attenuation database.
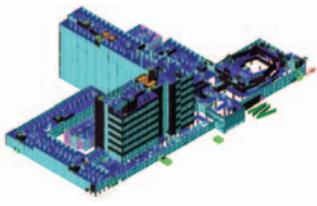
Quickly and easily create 2D/3D building models from CAD drawing files, scanned blueprints or rapid sketching

Simulate a mobile client in a GSM network

Run "what if" scenarios to visualize WLAN coverage

Enabling Application-Specific Wireless Network Design

With EnterprisePlanner's RF-intelligent model in place, you can then establish user regions to designate the expected network traffic and the types of applications in use. Each user region can be set up for multiple functions. For example, an area might have 50 low-bandwidth email users, 20 medium-bandwidth users performing internal file transfers, and 10 high-bandwidth voice over WiFi (VoWi-Fi) users. EnterprisePlanner considers all of these factors — environment, users, and applications — and creates a network plan that includes the number of access points, equipment placement, channel settings, and power levels required to support the usage requirements.

With EnterprisePlanner, you can prevent wireless coverage gaps, mitigate the effect of signal interference, and ensure maximum capacity without the need for specialized in-house RF expertise.

Simplifying Design, Maximizing Return on Investment

Wireless networks are not static, and performance can fluctuate over time. Motorola's predictive design approach eliminates this challenge by empowering you to optimize the network before spending a single dollar on hardware or wasting time on trial-and-error deployments. Planning teams can quickly access equipment location data, configuration information, and run "what if" scenarios to simulate potential network changes. Network deployment plans are easily stored in a centralized database, making network enhancements and expansions simple to evaluate and easy to plan.

Features and Benefits:
- Tailor your network for a wide range of wireless standards including WLAN, 3G, CDMA, GSM, iDEN, WiMAX, and user defined frequencies
- Directly import AutoCAD, PDF, JPEG, BMP and any other common building or site map file format
- Create an RF-intelligent model by leveraging an extensive RF attenuation database and network parts list library
- Automated access point/base station placement and configuration
- Visualize the physical location and configuration of all network equipment
- Review QoS critical information such as RSSI (Received Signal Strength Intensity), SIR (Signal to Interference Ratio), SNR (Signal to Noise Ratio), and throughput
- Predict how radio frequency activity will impact your wireless network
- Optimize your wireless network by leveraging site-specific wireless phone and RF receiver activity
- Automatically generate bill-of-materials and maintenance records for use by deployment teams and in future network expansion
- Reduce the total cost of ownership of wireless networks by eliminating costly rework

The Motorola Advantage

Motorola pioneered voice communication and mobile communication technology. This experience enables us to help you own, design, customize and control your own network—thereby increasing efficiency, interoperability and security throughout your entire enterprise.