

## **Wi4 Indoor enterprise wireless LAN infrastructure — the intelligent foundation for enterprise mobility**

### **Motorola comprehensive wireless LAN solutions are designed to meet the needs of any size enterprise — and any environment.**

Our complete portfolio of wireless LAN infrastructure delivers the anywhere anytime wireless connectivity you need to streamline your business. Choose from:

- **Wireless switches and access ports** that offer centralized easy-to-manage wireless connectivity
- **Access points** that provide a cost-effective wireless connection for small businesses and branch offices, as well as outdoors or in hard-to-wire areas of the enterprise
- **Bridges and client adapters** that provide virtually any device with wireless connectivity — from handheld and notebook computers to PDAs, printers, scales, point-of-sale devices and more
- **A complete suite of end-to-end management software** that enables accurate WLAN design, around-the-clock monitoring and day-to-day centralized management of your entire mobility solution — from your wireless LAN infrastructure to mobile devices and wireless applications

### **When you choose Motorola, you get more than just a wireless LAN.**

You get a single powerful integrated platform capable of meeting the requirements of any size enterprise, delivering:

- **Performance you can count on** — a dependable wireless connection that will keep your employees up and running, connected to your business systems, and productive.
- **Mobility with a difference** — Our wireless infrastructure is packed with unique features and functionality that deliver a reliable wireless connection and dependable quality of service — regardless of whether your users are interacting with simple or complex data applications, capturing images, viewing video, talking on the phone, processing e-mail and more.
- **The wireless services you need** — a single wireless networking infrastructure to support wireless data; Voice-over-IP (VoIP) services; mesh technology; wireless applications and services such as locationing and asset tracking; and even emerging technologies, such as RFID and cellular Wi-Fi network handoffs (Fixed Mobile Convergence).
- **The security you demand** — Our comprehensive suite of security mechanisms provides the end-to-end layered security that enables you to deploy the right level of security, when and where you need it.
- **Architecture simplicity** — Our best practices overlay architecture combines with centralized intelligence to easily integrate into and extend your existing wired infrastructure — with the ability to easily and cost-effective upgrade to support new standards and features.
- **The ability to grow with your business** — Regardless of how your needs may grow and change, or what new standards may be developed, Motorola wireless LAN infrastructure is designed to grow and change with you. The ability to add capacity and new functionality ensures that your investment is capable of meeting your needs today — as well as in the future.



# **Enterprise WLAN Infrastructure**

## At-a-Glance

## **BARCODE WAREHOUSE**

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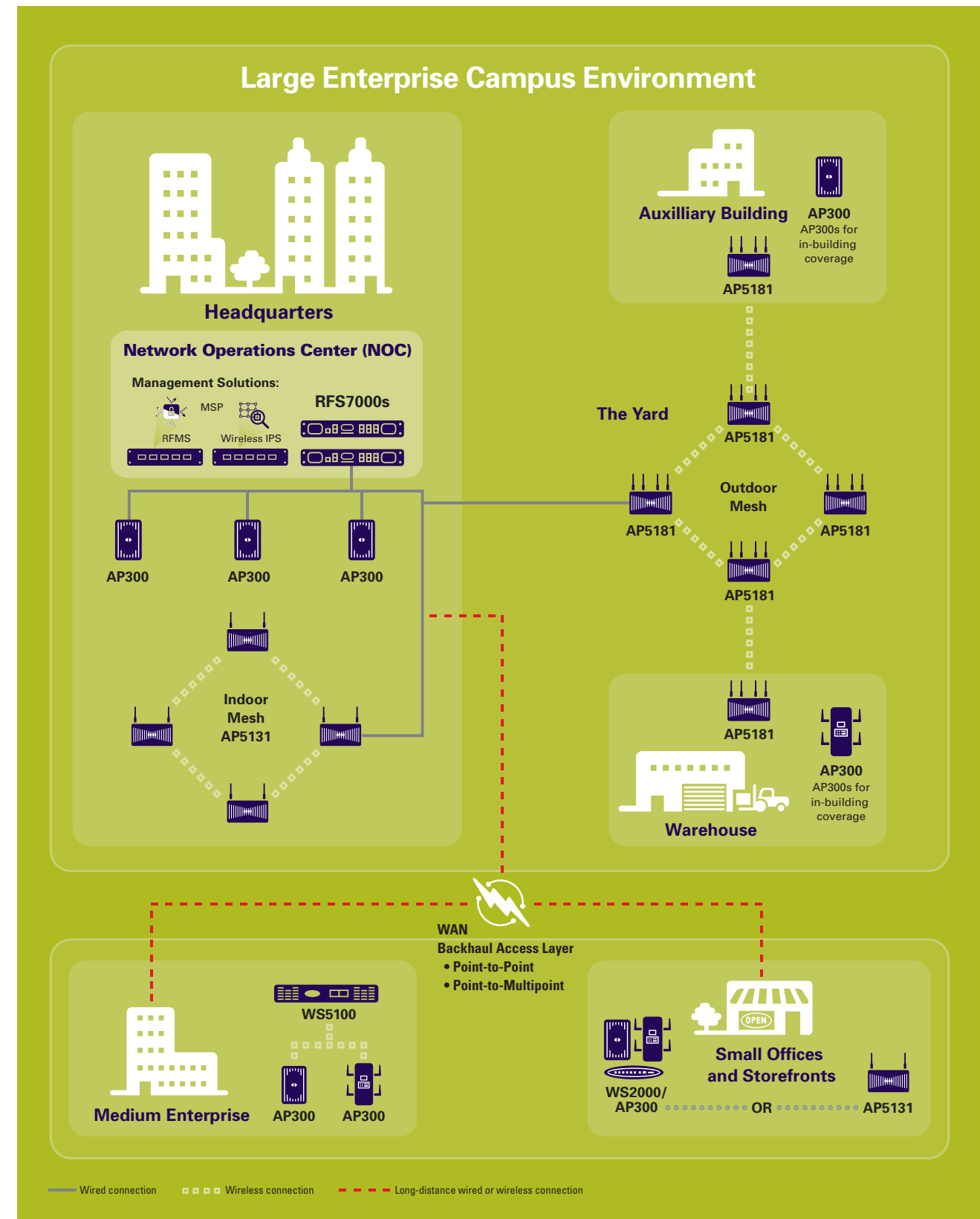


**MOTOROLA**  
PartnerSelect  
Premier Business Partner

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# Scalable enterprise wireless infrastructure

Motorola's wi4 Indoor family of enterprise WLAN infrastructure easily scales to meet the needs of any enterprise. Extend cost-effective wireless voice and data throughout your literal and virtual environment with this diverse portfolio — from headquarters with a campus-style environment to mid-size and smaller branch offices to employees working in hotspots or at home.



# Motorola's wireless LAN portfolio

Wireless Switches			
	WS2000 Wireless Switch	WS5100 Wireless Switch	RFS7000 RF Switch
<b>Description</b>	The WS2000 Wireless Switch offers an easy to manage network-in-a-box solution for small to medium-sized enterprises and branch offices, including an integrated router, gateway, firewall, and Power-over-Ethernet (PoE).	The Wi-NG based WS5100 provides robust support for enterprise mobility, including increased security, manageability, L3 roaming capabilities and quality of service (QoS).	Designed for large scale, high bandwidth deployments, the RFS7000 provides robust, highly scalable support for enterprise mobility, offering enhanced roaming, security, quality of service and management features.
<b>General Characteristics</b>	<ul style="list-style-type: none"> <li>• 802.11a/b/g</li> <li>• Supports up to 6 802.11a/b/g access ports</li> <li>• Supports up to 8 WLANs</li> <li>• Supports up to 200 mobile devices</li> <li>• Packet filtering: L2/3/4 Stateful Packet Analysis; Network Address Translation</li> <li>• Hotspot capable</li> <li>• Redundancy – Active: Standby</li> <li>• PCI compliant out-of-the-box</li> </ul>	<ul style="list-style-type: none"> <li>• 802.11a/b/g</li> <li>• Wi-NG architecture</li> <li>• Supports up to 48 802.11a/b/g access ports</li> <li>• Supports up to 32 WLANs</li> <li>• Supports up to 4000 mobile devices</li> <li>• Packet filtering: L2/3/4 Stateful Packet Analysis; Network Address Translation</li> <li>• Hotspot capable</li> <li>• Redundancy – Active: Standby; Clustering provides Active:Active; one-to-many availability</li> <li>• PCI Compliant out-of-the-box</li> </ul>	<ul style="list-style-type: none"> <li>• 802.11a/b/g</li> <li>• Wi-NG architecture</li> <li>• Supports up to 256 802.11a/b/g access ports</li> <li>• Supports up to 256 WLANs</li> <li>• Supports up to 8000 devices per switch</li> <li>• Packet filtering: L2/3/4 Stateful Packet Analysis; Network Address Translation</li> <li>• Hotspot capable</li> <li>• Redundancy – Active: Standby; Clustering provides Active:Active; one-to-many availability</li> <li>• PCI Compliant out-of-the-box</li> </ul>
<b>Authentication Mechanisms</b>	<ul style="list-style-type: none"> <li>• Access control lists (ACLs)</li> <li>• Kerberos</li> <li>• 802.1x/EAP</li> <li>• Integrated AAA server</li> </ul>	<ul style="list-style-type: none"> <li>• Access control lists (ACLs)</li> <li>• Kerberos</li> <li>• 802.1x/EAP</li> <li>• Integrated AAA server</li> </ul>	<ul style="list-style-type: none"> <li>• Access control lists (ACLs)</li> <li>• Kerberos</li> <li>• 802.1x/EAP</li> <li>• Integrated AAA server</li> </ul>
<b>Encryption Mechanisms</b>	<ul style="list-style-type: none"> <li>• WEP 40M28 (RC4)</li> <li>• KeyGuard</li> <li>• WPA-TKIP</li> <li>• WPA2-CCMP (AES)</li> </ul>	<ul style="list-style-type: none"> <li>• WEP 40M28 (RC4)</li> <li>• KeyGuard</li> <li>• WPA-TKIP</li> <li>• WPA2-CCMP (AES)</li> <li>• WPA2 TKIP</li> </ul>	<ul style="list-style-type: none"> <li>• WEP 40M28 (RC4)</li> <li>• KeyGuard</li> <li>• WPA-TKIP</li> <li>• WPA2-CCMP (AES)</li> <li>• WPA2 TKIP</li> </ul>
<b>Optimized Wireless QoS</b>	<ul style="list-style-type: none"> <li>• Voice prioritization</li> <li>• Wireless bandwidth management</li> <li>• WMM</li> <li>• SpectraLink Voice Prioritization</li> </ul>	<ul style="list-style-type: none"> <li>• Voice prioritization</li> <li>• Wireless bandwidth management</li> <li>• WMM</li> <li>• SpectraLink Voice Prioritization</li> </ul>	<ul style="list-style-type: none"> <li>• Voice prioritization</li> <li>• Wireless bandwidth management</li> <li>• WMM</li> <li>• SpectraLink Voice Prioritization</li> </ul>
<b>Value Add Motorola-only Features</b>	<ul style="list-style-type: none"> <li>• Pre-emptive roaming</li> <li>• Load balancing</li> <li>• Power save polling (PSP)</li> <li>• Virtual AP</li> </ul>	<ul style="list-style-type: none"> <li>• Pre-emptive roaming</li> <li>• Load balancing</li> <li>• Power save polling (PSP)</li> <li>• Virtual AP</li> </ul>	<ul style="list-style-type: none"> <li>• Pre-emptive roaming</li> <li>• Load balancing</li> <li>• Power save polling (PSP)</li> <li>• Virtual AP</li> </ul>
<b>Warranty</b>	Hardware – 1 year; Software – 90 days	Hardware – 1 year; Software – 90 days	Hardware – 1 year; Software – 90 days
<b>Recommended Services</b>	<ul style="list-style-type: none"> <li>• Service from the Start Advance Exchange Support</li> <li>• Wireless Infrastructure Device Software Support</li> </ul>	<ul style="list-style-type: none"> <li>• Service from the Start Advance Exchange Support</li> <li>• Wireless Infrastructure Device Software Support</li> </ul>	<ul style="list-style-type: none"> <li>• Service from the Start Advance Exchange Support</li> <li>• Wireless Infrastructure Device Software Support</li> </ul>

## Bridges and Client Adapters

	CB3000	LA-5127/LA-5137
<b>Description</b>	The CB3000 provides robust, enterprise-class wireless connectivity for Ethernet-enabled devices such as printers, scales and point-of-sale equipment without card slots or native wireless capabilities.	Optimized for embedded mobile applications, these CompactFlash cards deliver the power of wireless connectivity to enterprise devices and industrial equipment.
<b>WLAN</b>	• 802.11a/b/g	<ul style="list-style-type: none"> <li>• LA-5127: 802.11b/g</li> <li>• LA-5137: 802.11a/b/g</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>• WEP 40/128</li> <li>• WPA and AES encryption</li> <li>• 802.1x support with PEAP</li> <li>• EAP-TLS</li> <li>• EAP-TLS authentication</li> </ul>	<ul style="list-style-type: none"> <li>• WEP</li> <li>• WPA/WPA2</li> <li>• EAP-TLS</li> <li>• EAP-TLS/MSCHAPv2</li> <li>• PEAPv0/EAP-MSCHAPv2</li> <li>• PEAPv1/EAP-GTC</li> <li>• EAP-SIM (802.1x)</li> </ul>
<b>Features</b>	<ul style="list-style-type: none"> <li>• Work group bridge with support for up to 16 client devices</li> <li>• Point-of-Sale support for IBM, NEC, and others</li> <li>• Ad hoc mode (CB3000 to CB3000) for easy sharing of printers and other peripherals</li> <li>• Embedded secure web server for anywhere, anytime management</li> <li>• SNMP v2 support for easy integration with standard management systems</li> </ul>	<ul style="list-style-type: none"> <li>• Robust security for Linux and Windows applications</li> <li>• CompactFlash type I/II form factor with 16-bit PC card interface</li> <li>• Upgradable hard MAC with on-card memory</li> <li>• Comprehensive software development kit for OEM products</li> <li>• Worldwide regulatory approval backed by Motorola service and support</li> </ul>
<b>Warranty</b>	Hardware – 1 year; Software – 90 days	Hardware – 1 year; Software – OEM Development Agreement
<b>Recommended Services</b>	<ul style="list-style-type: none"> <li>• Service from the Start Advance Exchange Support</li> <li>• Wireless Infrastructure Device Software Support</li> </ul>	• Service from the Start — Bronze

## Power-over-Ethernet

	802.3af Single Port Power Injector
<b>Description</b>	Delivers power to individual Motorola access ports and access points via standard Ethernet cabling, simplifying installation and eliminating the need — and associated expense — for cabling and power outlets.
<b>Features</b>	<ul style="list-style-type: none"> <li>• Cost-effective power solution for small site deployments</li> <li>• Supports AP300 Access Ports, AP-5131 and AP-5181 Access Ports</li> <li>• Provides effective independent overload and short circuit protection per port</li> <li>• Sleek interlocking housing provides ability to affix multiple devices in an organized fashion</li> <li>• Desktop or wall mount</li> <li>• AC and Ethernet 10/100 ports</li> <li>• Operating temperature: 32°F to 104°F/0°C to 40°C</li> </ul>
<b>Warranty</b>	1 year
<b>Recommended Services</b>	Service from the Start Advance Exchange Support

## Access Ports and Points

	AP300 (Internal and External Antenna Models)	AP-5131 Access Point	AP-5181 Access Point
<b>Description</b>	Two models offer greater mounting flexibility. Internal antenna model can be mounted anywhere inside the carpeted space; the external antenna model can be mounted above ceiling tiles.	Enterprise-class wired and wireless networking for small offices and retail locations, and mesh networking for cost-effective extension of the corporate network in difficult-to-table areas.	Specifically designed for outdoor use, Motorola's AP-5181 delivers enterprise-class wireless networking in harsh environments. Support of mesh networking enables rapid and inexpensive deployment in difficult-to-cable areas.
<b>WLAN</b>	802.11a/b/g and 802.11b/g options	<b>General Specifications</b> <ul style="list-style-type: none"> <li>• 802.11a/b/g, DSSS and OFDM</li> <li>• 802.3af Power-over-Ethernet (PoE)</li> <li>• Mesh networking</li> <li>• Plenum-rated housing</li> <li>• Up to 127 devices supported</li> <li>• -4°F to 122°F/-20°C to 50°C</li> <li>• Desktop; wall; above drop and under-ceiling</li> <li>• Hotspot capable</li> <li>• PCI Compliant out-of-the-box</li> </ul>	<ul style="list-style-type: none"> <li>• 802.11a/b/g, DSSS and OFDM</li> <li>• 802.3af Power-over-Ethernet (PoE)</li> <li>• Mesh networking</li> <li>• Plenum-rated housing; IP56; NEMA 4X</li> <li>• Up to 127 devices supported</li> <li>• -22°F to 131°F/-30°C to 55°C</li> <li>• Wall; pole</li> <li>• Hotspot capable</li> <li>• PCI Compliant out-of-the-box</li> </ul>
<b>POE</b>	802.3af		
<b>Housing</b>	Plenum-rated (external antenna version only)		
<b>Operating Temperature</b>	Internal antenna model: 32°F to 104°F/0°C to 40°C External antenna model: 4°F to 122°F/-20°C to 50°C		
<b>Wireless Medium</b>	DSSS and OFDM	<b>Security</b> <ul style="list-style-type: none"> <li>• 802.11i</li> <li>• WPA2</li> <li>• WPA</li> <li>• 3DES IP Sec encryption</li> <li>• VPN Client</li> <li>• AAA server</li> <li>• Integrated firewall</li> <li>• DHCP server</li> <li>• Rogue AP detection</li> </ul>	<ul style="list-style-type: none"> <li>• 802.11i</li> <li>• WPA2</li> <li>• WPA</li> <li>• 3DES IP Sec encryption</li> <li>• VPN Client</li> <li>• AAA server</li> <li>• Integrated firewall</li> <li>• DHCP server</li> <li>• Rogue AP detection</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>• 802.11i</li> <li>• WPA2</li> <li>• WPA</li> <li>• 3DES IP Sec Encryption</li> </ul>		
<b>Mounting</b>	Internal model: Wall; ceiling (to suspended ceiling T-bars below tile only) External model: Wall; ceiling (above or below tile)	<b>Optimized Wireless QoS</b> <ul style="list-style-type: none"> <li>• Voice prioritization</li> <li>• WMM</li> <li>• QoS</li> </ul>	<ul style="list-style-type: none"> <li>• Voice prioritization</li> <li>• WMM</li> <li>• QoS</li> </ul>
<b>Warranty</b>	Hardware — 1 year; Software — 90 days	Hardware — 1 year; Software — 90 days	Hardware — 1 year; Software — 90 days
<b>Recommended Services</b>	<ul style="list-style-type: none"> <li>• Service from the Start Advance Exchange Support</li> </ul>	<ul style="list-style-type: none"> <li>• Service from the Start Advance Exchange Support</li> <li>• Wireless Infrastructure Device Software Support</li> </ul>	<ul style="list-style-type: none"> <li>• Service from the Start Advance Exchange Support</li> <li>• Wireless Infrastructure Device Software Support</li> </ul>

## Motorola Mobility Management Software

**Mobility Services Platform (MSP)**

**Centralized management of your entire enterprise mobility solution.** MSP provides a single point of control for your entire enterprise mobility solution — from your mobile devices to mobile infrastructure and wireless applications. The scalable solution is ideal for any size environment — regardless of whether you are supporting hundreds or thousands of devices, or whether those devices are located locally or around the world. This fully featured solution enables remote provisioning and updating of any and all of the devices in your enterprise mobility solution, and provides complete visibility into devices and applications to support the rapid troubleshooting and issue resolution required to minimize workforce downtime and maintain productivity levels.

## Wireless Intrusion Protection System (IPS)

**Around the clock security monitoring.** Wireless IPS delivers the tools you need to protect your wireless network infrastructure, mobile devices and wireless traffic from external threats. With Wireless IPS, you can proactively monitor your system for weaknesses and make corrections before a problem occurs. Around the clock monitoring ensures that any security breaches are instantly identified — from rogue devices to attacks — enabling an immediate response. The unique architecture takes the best of distributed and centralized architectures, creating a hybrid platform that offers highly accurate analysis, minimal bandwidth requirements, the elimination of blind spots, and full locationing capabilities. The plug-and-play solution is easy to scale, upgrade and manage, bringing a new level of simplicity and cost-efficiency to enterprise level protection against unauthorized access throughout your entire enterprise mobility solution.

## RF Management Software (RFMS)

**Plan, monitor and analyze wireless network performance.** Motorola RF Management Software is an intuitive, browser-based, visual management tool for Wi-Fi site planning, management, troubleshooting and monitoring. RF heat maps display optimal AP placement as an aid to planning, while key performance indicator (KPI) graphs represent network health at a glance. Users can view the status and location of wireless infrastructure devices and clients, search for specific pieces of tagged equipment, identify rogue APs, troubleshoot network issues, generate reports and export raw data. Statistics such as RF coverage, load balancing, redundancy, security threat level and network utilization are graphically displayed, allowing IT professionals to instantly assess network status.

## Motorola LAN Planner®

**Rapid and accurate design of high performance wireless networks.** Ensure that your wireless LAN is designed to deliver maximum performance and value with Motorola LAN Planner — regardless of whether you are adding a new wireless LAN, expanding an existing wireless network or need to plan for the impact of new wireless applications. This comprehensive tool enables the design and deployment of wireless networks that meet the specific capacity, reliability and performance requirements in your environment. The ability to predict and visualize the impact of construction materials, network usage and the potential impact of co-channel interference enables the rapid design of wireless networks that provide superior wireless performance, superior quality of service (QoS) — and superior total cost of ownership (TCO). And post deployment reporting enables validation that the network is performing to expectations.