



Motorola WLAN in Healthcare:

Seamless mobility for advanced patient care

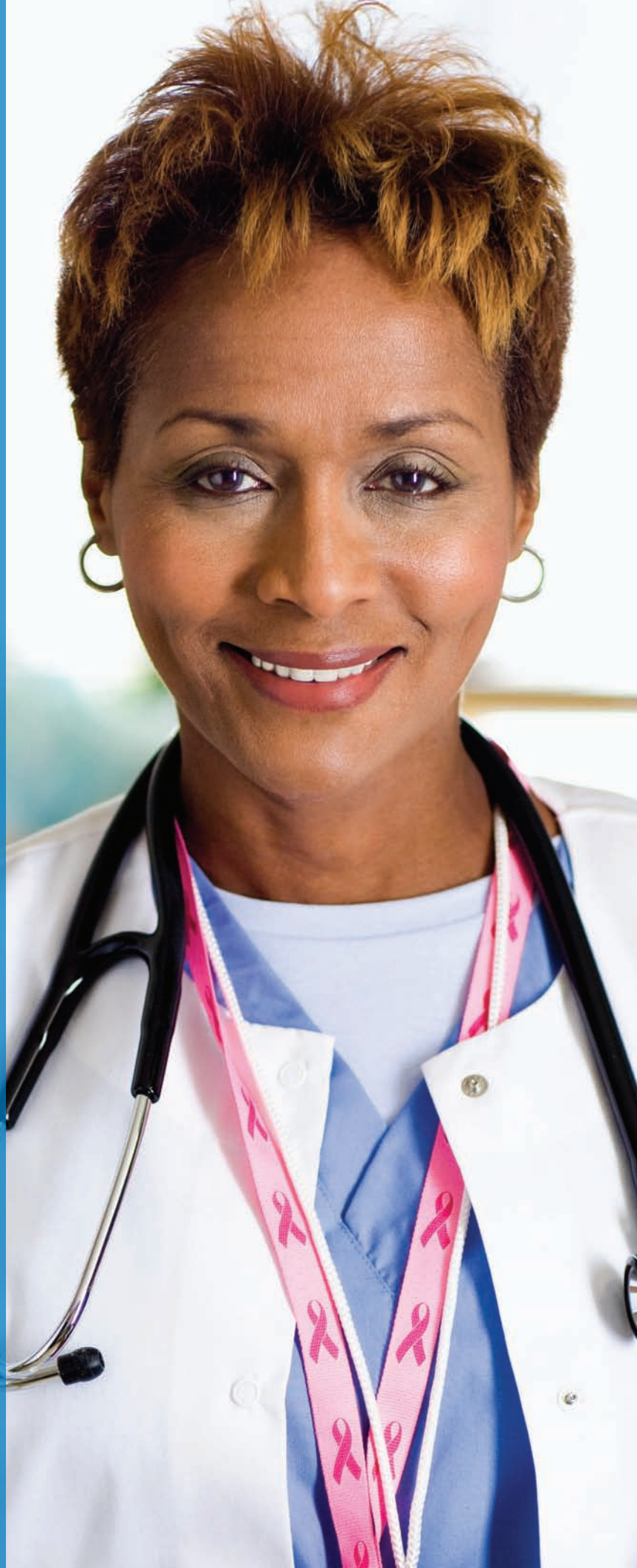


Patient care without wires

In the mission-critical environment of healthcare, delivering the very best in patient care requires doctors, nurses and other caregivers to be accessible and instantly able to reach colleagues as well as access a wealth of data. With a Motorola wireless LAN solution, you can put 'right here right now' mobile access to voice and data in the pockets of your healthcare team, providing the tools they need at the point of care to define a new level of healthcare excellence.

At the heart of every Motorola mobility solution is a Motorola wireless LAN, optimized to meet the stringent demands of the healthcare environment — a main communication artery that you can count on to reliably and securely carry voice and data to and from every employee, in every inch of your facility. And whether you need rugged enterprise-class PDA-style mobile computers for nurses and other staff; single and dual-mode Voice-over-WLAN phones; bar code scanners for managing inventory and other data capture requirements; or RFID and other tracking technologies to automatically track patients, medical equipment and staff, our end-to-end mobility product portfolio delivers.

Now, your staff can enjoy the seamless access to people and information required to make the best decisions — no matter where they are in the hospital. The result? Extraordinary productivity, giving clinicians, nurses and other staff the information they need to deliver extraordinary patient care.



What can your healthcare facility do with a Motorola wireless LAN?

Healthcare facilities around the world utilize Motorola's advanced wireless networks to deliver complete solutions for vital data, voice and other applications, including:

- **Point-of-care applications:** With mobile applications running over a wireless network, caregivers can verify medication, access patient records, order tests, collect specimens and more — right from the patient's bedside.
- **Voice communications:** Single and Dual-mode Voice-over-WLAN phones and badges and Wi-Fi enabled nurse call systems allow nurses and physicians to easily communicate, roam throughout the facility, and respond to patient needs instantly.
- **Real-time patient, staff and asset tracking:** The ability to wirelessly track any patient, staff or asset increases overall efficiency. Easily locate a specialist to perform an emergency procedure, a patient who is late for a test, a wheelchair or a specialized piece of equipment for an upcoming operation.
- **Patient and equipment monitoring:** WLAN-enabled medical equipment allows nurses and other staff to monitor a patient's condition and the status of sensitive equipment, such as an IV pump, all in real time — wherever they may be in the hospital.
- **Secure guest access:** The same wireless LAN that provides mobile voice and data access to healthcare staff can be utilized to provide guest access to the Internet without impacting critical operations or jeopardizing the privacy of your data, ensuring HIPAA compliance while providing a valuable service for visiting family and friends.

The truly healthcare-ready and healthcare-proven wireless LAN

Just as your patients come to you for the best in healthcare, many of the world's largest healthcare providers come to Motorola for truly best in class mobility solutions. And every minute of every day, Motorola delivers. With Motorola, you get the peace of mind that comes from choosing a leading provider who really understands the meaning of 'mission critical' — we offer many decades of experience providing critical mobile communications solutions for healthcare facilities as well as Fortune 500 companies and public institutions around the world.



Our easy-to-use wireless LAN technology is designed to meet the needs of healthcare staff, allowing your caregivers to remain focused on the life-saving tasks at hand. As the inventor of first and second generation wireless LANs, Motorola knows mobility — our breadth of experience and patented features provide the truly resilient, secure and high-performance wireless connection required in healthcare facilities.

What can you expect from a Motorola wireless LAN?

Superior performance. Our wireless LAN products are loaded with features that deliver voice and data with a difference. Enterprise class Quality of Service (QoS), pre-emptive roaming, load balancing, and seamless Layer 3 mobility combine to provide physicians, nurses and others with a resilient connection as they roam throughout the facility — from the patient's bedside, in the halls, at the nurses station, to the pharmacy and more — ensuring continuity of service for phone calls and data applications. Support for 802.11n enables the

Toll-quality voice. Advanced support for VoWLAN provides voice-aware wireless services throughout the facility, enabling push-to-talk and more for employees inside the four walls as well as in outside areas. The comprehensive QoS feature set provides granular control over the many wireless networking functions required to deliver high performance persistent clear connections with toll-quality voice. WMM Admission Control, including support for SIP and TSPEC, ensures dedicated bandwidth for voice calls as well as better control over active voice calls. Layer 3 hyper-fast secure roaming combines with readiness for external fixed-mobile convergence (FMC) solutions, enabling seamless voice services with true mobility across the enterprise. And the addition of Motorola's VoWLAN-ready Total Enterprise Access Mobility (TEAM) business smartphones enables the easy extension of PBX features as well as advanced voice functionality.

Gap-free security. At Motorola, we understand that protecting the sensitive data and the performance of your wireless solution is critical — which is why we reach beyond the requirements of HIPAA to offer built-in, uncompromising security. Support for all of today's latest security mechanisms enables the deployment of robust layered security that protects the integrity of patient records, test results, medication prescriptions and more. 802.1x authentication ensures that only authorized users gain access to your network. WPA2 offers the strongest encryption available — AES. And just as your patients count on you every second of the day, our leading AirDefense Wireless Intrusion Protection System (IPS) proactively monitors your WLAN, mobile devices and traffic every second of the day, to protect network performance and availability, and enable the instant identification and neutralization of a wide range of threats.

Resilient RF. Downtime is not an option for your healthcare staff. You need to know that the wireless LAN offers the same reliability as your wired network and your desk phone. With a Motorola wireless solution, you enjoy wireless that simply works. Self-healing mesh, redundant cluster support and

most bandwidth-intensive applications, including video for medical imaging, ensuring support for the applications you need today — and tomorrow. Virtual AP enables broadcast domain separation for secure hotspot enablement for patients and visitors. And Wi-Fi Multimedia Extensions (WMM-PowerSave) with Admission Control improves mobile device battery life and battery capacity for your Motorola mobile devices, ensuring ample power for a full shift.



Adaptive AP technology — all Motorola innovations for the Wireless LAN — work together to seamlessly re-route traffic around any malfunctioning equipment in your network. In the event that an access port should fail, our SMART RF Management feature automatically adjusts the power and channels of neighboring access ports to eliminate any gaps in coverage, providing next generation self-healing — no monitoring required. And with Motorola's unique Adaptive AP, our Remote Site Survivability (RSS) mesh access points will continue to deliver secure uninterrupted wireless service, even in the event of a network outage on your wired network. The result is unparalleled wireless resiliency.

Built-in applications – voice, security and location.

When you choose a Motorola wireless switch, you get superior support for advanced applications — a host of integrated capabilities ready to go right out of the box, from toll-quality voice to real-time location tracking and security. With support for Voice over WLAN (VoWLAN), healthcare providers can put cost-effective mobile voice in the hands of physicians, nurses and more. Rich and flexible support for a broad array of real-time location services — including built-in 802.11 asset tracking, Passive RFID and industry-leading third party real time location system (RTLS) solutions — enables automatic tracking of staff, patients and equipment. And built-in support for WPA2-CCMP, Stateful Firewall, integrated RADIUS server, IPSec VPN gateway, secure guest access provisioning and more, eliminates the need to purchase and manage additional equipment.

Network scalability. Motorola's comprehensive wireless LAN portfolio can meet your networking needs, regardless of how small or large your facility's reach is today — from a long-term care facility to a large hospital campus or a multi-facility network that includes hospitals, clinics and other offices distributed across town, across the country or around the world. Our wireless networks easily grow as your organization expands — Adaptive AP enables the easy addition of remote sites that can be centrally managed, yet also stand alone in the event of a WAN outage.

RF lifecycle management. At Motorola, we know from decades of industry experience that a poorly planned or difficult-to-manage wireless solution

can erode the benefits of the very mobility it provides. That's why we've invested in creating a powerful set of integrated management tools that provides granular end-to-end control across the full lifespan of your healthcare mobility solution — from planning and deployment through day-to-day management of the wireless LAN infrastructure, your mobile devices and your mobile applications.



Outstanding value. When you invest in a Motorola WLAN, you enjoy wireless voice and data for a fraction of the cost to deploy and maintain a wired network. Our full-featured Wireless Next Generation operating system, known as Wi-NG, offers built-in support for virtually every feature possible in a wireless LAN, from rich location services, broadband backhaul and Adaptive AP technology to support for RFID, mesh and other RF technologies — right out of the box. Budget-friendly shared licensing eases the cost burden of redundancy support, and centralized remote management simplifies and reduces the cost of managing your network.

Award winning wireless LAN technology...

...from an award winning company.

ABIresearch[®]

2008 ABI Green Award

Motorola

Motorola Enterprise WLAN Portfolio



2008 Interop Best of Show Finalist

Motorola RFS6000



2008 Best of FOSE

Motorola RFS7000

One company with everything you need to go wireless

Why choose Motorola to empower your healthcare workers with mobility? Because we cover everything wireless — from hardware and applications to the industry expertise required to plan and deploy mobility solutions designed for a maximum return on investment. When you choose Motorola, you have the assurance that comes with choosing a partner that truly knows wireless inside and out. The inventor of the wireless switch, we also hold over 100 key wireless LAN patents that enable unique Motorola-only features that work together to provide 'wired' performance levels on the wireless LAN.

Motorola's unmatched mobility portfolio and world-class partnerships enable us to offer true end-to-end healthcare solutions that offer the simplicity of a single accountable source. In addition to WLAN, our comprehensive product offering includes everything you need to get and keep your mobility solution running at peak performance every day of the year:




- Rugged and enterprise class integrated voice and data mobile computers with extensive advanced data capture capabilities and wireless communications options
- Wide area and local area wireless network infrastructure to wirelessly connect remote facilities and mobile workers
- Fixed, handheld and mobile RFID readers; bar code scanners; and business-class smartphones
- Software products for central and remote management of every aspect of your mobility solution
- A complete range of pre-and post-deployment services

And finally, Motorola's world-class ecosystem of partners is there to ensure that your mobility solution fits seamlessly with your existing technology.

Motorola's comprehensive wireless LAN portfolio




Wireless Switches

Motorola Wireless Switches deliver on the promise of the wireless enterprise, providing the performance, security, resiliency, scalability and manageability required to deliver cost-effective centralized wireless voice and data in any size facility — from long-term care and physician office environments to the largest Integrated Delivery Systems.

	<p>RFS7000: Designed for large buildings and campuses, the RFS7000 offers a comprehensive feature set based on Motorola's Wireless Next Generation (Wi-NG) platform. The RFS7000 supports 8,000 to 96,000 mobile devices/users, and up to 256 802.11a/b/g access ports or Adaptive 802.11 a/b/g and a/b/g/n access points.</p>
	<p>RFS6000: Designed for mid-sized facilities, the RFS6000 offers a multicore multithreaded architecture with all of the advanced features of Motorola's Wi-NG platform. The RFS6000 supports 2,000 to 20,000 mobile devices and up to 48 dual radio 802.11a/b/g access ports or Adaptive 802.11 a/b/g and 802.11 a/b/g/n access points.</p>
	<p>WS2000: Designed for outpatient clinics and physician offices, the WS2000 is a powerful all-in-one wired and wireless switch and router that simplifies and reduces the costs of managing wired and wireless networks. Ideal for smaller locations, each WS2000 offers support for up to 6 802.11a/b/g access ports and mesh capabilities.</p>



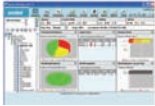
Access Ports and Points

Motorola Access Ports and Access Points offer flexible deployment options, whether you are deploying a single cell site, a mesh network or a large installation.

	<p>AP300: A key component in Motorola's Wireless Switch systems, the AP300 dual radio 802.11a/b/g access port provides the point of connection between your mobile devices and the wireless LAN. A thin, low cost zero-configuration device, the AP300 is centrally managed from the Motorola Wireless Switch, and does not require manual maintenance. The AP300 can also function as a dedicated sensor to provide 24x7 wireless security.</p>
	<p>AP-7131: An industry first, the AP-7131 802.11a/b/g/n Access Point offers the throughput, coverage and resiliency required to enable the truly wireless healthcare facility. The AP-7131's tri-radio design can enable always-on wireless intrusion protection as well as mesh networking. As an Adaptive AP, the AP-7131 can be centrally managed by a switch or act independently.</p>
	<p>AP-5131 and AP-5181: The AP-5131 provides enterprise-class wireless networking for standalone locations, and mesh networking for cost-effective extension of the network in difficult-to-cable areas. As an Adaptive AP, the AP-5131 can be centrally managed by a switch or act independently. The related AP-5181 provides similar functionality for rugged, outdoor environments.</p>


Management Software

Motorola offers a full suite of software products to design, deploy, troubleshoot and secure your wireless network, making it easy for your staff to manage the full lifecycle of your wireless LAN. These products are available as an integrated suite, or can work individually to improve your wireless performance regardless of your choice of WLAN vendor.

	<p>LANPlanner: Wireless LAN network success begins with the network design. LANPlanner enables the easy and remote creation of a well-designed network that can deliver maximum performance from the moment the system is powered on — eliminating the high cost associated with an iterative trial-and-error approach and multiple site surveys.</p>
	<p>RF Management System: This fully featured management solution provides the comprehensive centralized tools you need to automate planning, deployment, security and day-to-day management of your wireless LAN. And tight integration with other Motorola management solutions enables the creation of a powerful single point of control for your entire mobility solution — including the wireless LAN, your wireless broadband infrastructure and all your mobile devices (via Motorola's Mobility Services Platform/MSP).</p>
	<p>AirDefense Wireless IPS: This comprehensive around-the-clock Wireless LAN security and performance monitoring solution provides healthcare facilities with the ability to detect and terminate rogue devices, continually identify and correct network weaknesses, ensure compliance with network policies and view forensics data for richer analysis of security anomalies. The result is the next-generation proactive protection you need to not only comply with government regulations, but also ensure continual network performance and availability.</p>

Wireless Bridges

The Motorola Wireless Broadband Portfolio helps customers to design, deploy and manage wireless networks over large areas to share data, voice and video across a geographically dispersed multi-facility healthcare organization.

	<p>Point-to-point and point-to-multipoint solutions: Whether you have a sister hospital across town or a series of clinics throughout the city, Motorola wireless Ethernet bridges and powerful software tools can provide a cost-effective connection (up to 155 miles), eliminating the need for — and the recurring cost of — leased lines. Seamlessly sharing information across the entire healthcare organization enables better collaboration for better patient care as well as streamlined administrative management.</p>
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Additional products: Motorola also offers a wide variety of associated WLAN products, from Power-over-Ethernet injectors to wireless bridges and client adapters for medical devices.



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