# WIRELESS LANs AT-A-GLANCE
## MOBILITY SOLUTIONS

### WHY SHOULD I CARE ABOUT WIRELESS LANS?

Wireless LANs (WLANs) enable users to access network resources and applications securely, regardless of location or client device. With secure, high-speed access to the network, employees can increase their productivity, stay better informed and more responsive to customers, and have better collaboration tools. In addition to wireless-enabled devices such as laptops, personal digital assistants (PDAs), and IP phones, a WLAN solution consists of a network of wireless access points. Access points connect to the wired network and use radio frequency technology to connect to wireless client devices. For additional capabilities, management servers and switches and routers with integrated wireless services can be added to the network.

### WHAT PROBLEMS NEED TO BE SOLVED?

WLANs require the same level of security, scalability, reliability, ease of deployment, and management as wired LANs.

### MANAGEABILITY AND SCALABILITY

The daily cost of operating and maintaining WLANs is lowered by the use of wireless management solutions. The Cisco® Structured Wireless-Aware Network (SWAN) provides the framework to integrate and extend wired and wireless networks to deliver the lowest possible total cost of ownership for companies deploying WLANs. The flexibility of the framework allows network managers to design the network to meet their specific scalability, reliability, ease of deployment, and management requirements. As business users embrace the freedom and flexibility of wireless connectivity, they demand highly available WLANs that match the accessibility of wired networks. Cisco solutions scale from midsize to large organizations, and to a network of remote branch offices. Cisco offers unparalleled choices, creating a flexible WLAN framework that is easily managed using common tools across the total network.

To learn more about Cisco Wireless Management solutions, go to:
http://www.cisco.com/go/wireless_management

For more information about Cisco SWAN, go to:
http://www.cisco.com/go/swan

### MAINTAINING NETWORK SECURITY

The Cisco Wireless Security Suite provides robust wireless LAN security services that closely parallel the security available in a wired LAN. A business-ready, standards-based, WLAN security solution, the Cisco Wireless Security Suite, is included with all Cisco Aironet products and is a component of the Cisco Self Defending Network. This solution gives network administrators' confidence that their data will remain private and secure when hey use Cisco Aironet Series products with Cisco Compatible Extensions products or Wi-Fi Certified WLAN client devices. For more information about the Cisco Wireless Security Suite, go to:
http://www.cisco.com/go/aironet/security

### WHAT ARE THE BENEFITS OF WIRELESS LANS?

#### Improved Productivity

With a wireless connection, employees can work from locations that are within range of an access point and enjoy full access to their network-based applications and data, enabling them to stay connected and be fully productive from almost anywhere. A November 2003 study by NOP World, one of the world's largest research and business information companies, found that WLANs boosted employee productivity by an average of 27 percent. Taking into account the reported employee average daily time savings and hourly wages, the average total value of time saved resulting from WLAN use totals about $14,000 annually per employee.

#### Enhanced Collaboration and Responsiveness

Today, workers require constant access to the Internet and to resources on the company intranet. Wireless technology lets employees access these resources continuously throughout the day, conducting research and communicating with coworkers, customers, and business partners through e-mail and instant messaging, without the physical restrictions of a wired connection.

#### Flexible Mobility

Currently, most wireless computing is conducted with laptop computers, but that scenario is rapidly broadening. More wireless vendors are offering silicon solutions that dramatically reduce the form factor, power consumption, and cost of wireless solutions. As a result, wireless capabilities will be increasingly featured in smaller devices, such as very small laptops (palm tops), PDAs, and phones. When connected wirelessly to the company network, these devices will become critical productivity tools for workers who do not always work at their desks.

#### Return on Investment (ROI)

WLANs deliver excellent ROI by providing important IT benefits such as flexibility, rapid deployment, easy scalability, and low installation costs. Network managers have always faced challenges when adding users to the network. They must consider how each user will affect the LAN, as well as the cost and difficulty of running cable to the user's location. In some organizations, LAN requirements can change daily. And, as companies grow, managers can be forced to configure a temporary space and then lose that investment when the company moves or expands.

#### Why Cisco?

Cisco WLAN solutions enable mobility and increasing productivity quickly and cost effectively. The Cisco Aironet® technology sets the enterprise standard for high-performance, secure, manageable, and reliable wireless connectivity.



204180.bc_ETMG_LSK_02.05

# WIRELESS LANs AT-A-GLANCE
## MOBILITY SOLUTIONS

### Indoor Access Points

**Cisco Aironet 1130AG Series:**
**Dual-band 802.11a/b/g enterprise-class access point with integrated antennas for easy deployment in offices and similar facilities.** The Cisco Aironet 1130AG Series packages high capacity, high security, and enterprise-class features delivering wireless LAN access for a low total cost of ownership. Designed for wireless LAN coverage in offices and similar RF environments, this unobtrusive access point features integrated antennas and dual IEEE 802.11a/g radios for robust and predictable coverage, delivering a combined capacity of 108 Mbps. The competitively priced Cisco Aironet 1130AG Series is ready to install and easy to manage, reducing the cost of deployment and ongoing maintenance.

**Cisco Aironet 1100 Series:**
**Single-band 802.11b/g enterprise-class access point with integrated antennas for easy deployment in offices and similar facilities.** The Cisco Aironet® 1100 Series offers customers an affordable, easy-to-install, single-band access point that features enterprise-class management, security, and scalability. Legacy Cisco Aironet 1100 Series access points have an 802.11b radio that may be field-upgraded to 802.11g; alternately, the Cisco Aironet 1100 Series may be ordered with a single 802.11g radio that is backward-compatible with 802.11b.

### Indoor Rugged Access Points

**Cisco Aironet 1230AG Series:**
**Dual-band 802.11a/b/g enterprise-class access point with antenna connectors for flexible coverage capabilities in challenging RF environments.** The Cisco Aironet 1230AG Series delivers the versatility, high capacity, security, and enterprise-class features required in more challenging RF environments. It is designed for wireless LANs in rugged environments or installations that require specialized antennas, and features dual antenna connectors for extended range, coverage versatility, and more flexible installation options. The Cisco Aironet 1230AG Series combines antenna versatility with industry-leading transmit power, receive sensitivity, and delay spread for high multipath and indoor environments, providing reliable performance and throughput for the most demanding requirements.

**Cisco Aironet 1200 Series:**
**Single-band 802.11b/g enterprise-class access point with antenna connectors for flexible coverage capabilities in challenging RF environments.** The Cisco Aironet 1200 Series offers the same versatility, high capacity, security, and enterprise-class features demanded by industrial wireless LAN customers, but when configured as a single-band IEEE 802.11g access point, provides a cost-effective, single-band solution. The Cisco Aironet 1200 Series provides the flexibility to change capabilities as customer requirements and technologies evolve. Customers can confidently deploy 802.11g networks now, and have the option to upgrade to a dual-band 802.11a/g network in the future. CardBus-based 802.11a upgrade modules can be easily installed into Cisco Aironet 1200 Series access points originally configured for 802.11g.

### Outdoor Access Points/Bridges

**Cisco Aironet 1300 Series:**
**Single-band 802.11b/g enterprise-class outdoor access point/bridge ideal for outdoor areas, network connections within a campus area, or outdoor infrastructure for mobile networks.** The Cisco Aironet® 1300 Series Outdoor Access Point/Bridge is a flexible platform with the capability of access point, bridge, and workgroup bridge functionality. The Cisco Aironet 1300 Series provides high speed and cost effective wireless connectivity between multiple fixed or mobile networks and clients. Building a metropolitan area wireless infrastructure with the Cisco Aironet 1300 Series provides deployment personnel with a flexible, easy to use solution that meets the security requirements of wide area networking professionals.

### Client Adapters


**Cisco Aironet IEEE 802.11a/b/g CardBus Wireless LAN Client Adapters** quickly connect desktop and mobile computing devices to the wireless LAN in 802.11a/b/g-compliant networks. Ideal for laptops and tablet PCs. **Cisco Aironet IEEE 802.11a/b/g PCI Wireless LAN Client Adapters** are ideal for low-profile slim desktop and point-of-sale devices.

**Cisco Compatible Client Adapters** complement Cisco Aironet infrastructure products. The Cisco Compatible Extensions Program for wireless LAN client devices provides tested compatibility with licensed Cisco infrastructure innovations. Compatibility is assured through extensive, independent testing of third-party devices and can be found by looking for products displaying the Cisco Compatible logo. The Cisco Compatible Extensions Program enables the widespread availability of wireless client devices that take advantage of the Cisco Aironet wireless network, accelerating the availability of innovative features while maintaining interoperability. For more information about Cisco Compatible Extensions go to: http://www.cisco.com/go/ciscocompatible/wireless