# OUTDOOR WIRELESS
AT–A–GLANCE

EXTENDING NETWORKS COST-EFFECTIVELY WITH CISCO AIRONET OUTDOOR ACCESS POINTS AND BRIDGES

WHY SHOULD I CARE ABOUT OUTDOOR WIRELESS?

Business doesn't just happen indoors. As wireless LAN (WLAN) devices proliferate, the need to provide them connectivity extends outdoors. Applications such as hot spots, outdoor surveillance, outdoor inventory control, or outdoor baggage handling all stretch the need for WLAN access. And it's not just providing access to client devices—remote networks need to be connected as well. These networks could be in remote buildings, or mobile networks that are located outside.
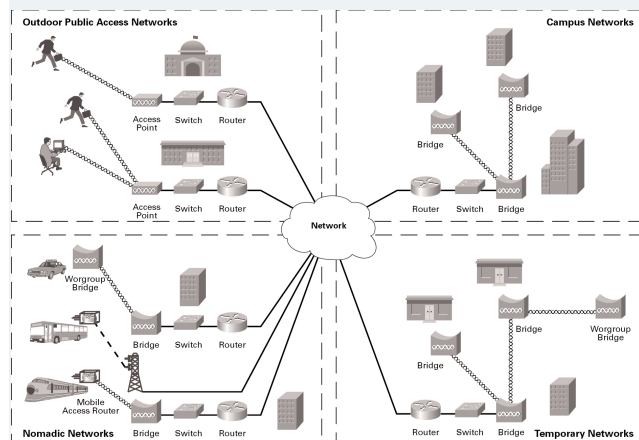
WHAT PROBLEMS NEED TO BE SOLVED?

• *Outdoor public-access networks*—Extend public-access coverage to outdoor or wider areas

• *Campus networks*—Provide a cost-effective, high-bandwidth means to connect networks within a campus

• *Nomadic networks*—Offer fixed outdoor infrastructure for mobile networks and users

• *Temporary networks*—Create a temporary network infrastructure that is rugged, flexible, and portable

CISCO AIRONET 1300 SERIES AND AIRONET 1400 SERIES

Delivering the flexibility required by network operators today, both the Cisco Aironet® 1300 and Aironet 1400 Series products are deployable in outdoor or harsh environments—saving the added expense of NEMA enclosures. Both support a variety of configurations, such as point-to-point or point-to-multipoint, as well as a choice of external or integrated antennas. The Cisco Aironet 1300 and Aironet 1400 Series products use the same Cisco IOS® Software as wired networks, providing network managers with a familiar experience and minimizing training and administrative costs.

Cisco Structured Wireless-Aware Network (SWAN)—Both the Cisco Aironet 1300 and Aironet 1400 series are included in the Cisco SWAN solution—simplifying deployment, management, and operations by allowing remote network deployment and management with Cisco IOS Software on the CiscoWorks Wireless LAN Solution Engine.

Cisco Aironet 1400 Series—Supporting data rates up to 54 Mbps, the Cisco Aironet 1400 Series is based on the advanced 802.11a wireless standard and offers the industry's highest receiver sensitivity.

Cisco Aironet 1300 Series—Based on the IEEE 802.11g standard, the Cisco Aironet 1300 Series delivers 54-Mbps wireless connectivity. The Cisco Aironet 1300 Series has the added flexibility of supporting access-point, bridge, and workgroup bridge roles.

Power injector—Converts the standard Ethernet suitable for indoor areas to a coaxial interface suitable for outdoor environments; the power injector also provides power to the outdoor unit over the same cables.

Antennas and accessories—The industry's widest selection of directional and omnidirectional antennas (2.4 or 5 GHz), low-loss cable, mounting hardware, and other accessories.

WHAT ARE THE BENEFITS OF OUTDOOR WIRELESS?

• *ROI*—Avoid trenching, extra outdoor enclosures, and monthly leased-line fees

• *Extended connectivity*—Open new offices, extend to new markets, provide ubiquitous access

• *Overcoming difficult wiring*—Avoid concerns such as rivers between sites, historic structures, right-of-way negotiations

• *Network control*—Self-installed and -maintained: no reliance on third-party service providers

• *Quick installation*—Faster than laying cable or waiting on telco facilities, and no waiting on lengthy licensing

• *Backup facilities*—Provide backup links to avoid downtime or augment network capacity

WHY CISCO?

• Industry-leading performance

• Wired and wireless integration

• Low total cost of ownership

• Enhanced security

• Flexibility and ease of use

• Service and support