



# Next-Generation Wireless LAN

How Cisco Upgraded Its  
Wireless Infrastructure



## A Cisco on Cisco Case Study: Inside Cisco IT

# Overview

- Challenge

Upgrade the indoor WLAN infrastructure for use by more employees and as a primary network access medium

- Solution

Expand and upgrade the WLAN with the Cisco Unified Wireless Network solution

- Results

Improved availability, coverage, performance, stability, and security

- Next Steps

Support new services while continuing to enhance security and management

# Challenge

## Upgrade the WLAN Infrastructure

- Increase WLAN coverage and performance for 60,000+ users
- Support wireless as a primary network access medium
- Provide visitor access and outdoor coverage
- Reduce service-impacting incidents and operational demands
- Implement new security standards

# Solution

## Cisco Unified Wireless Network Solutions

- 6000+ access points in 300 Cisco locations worldwide; double the previous number

Cisco Aironet® 1130AG Series access points at campus sites and large and mid-sized field offices

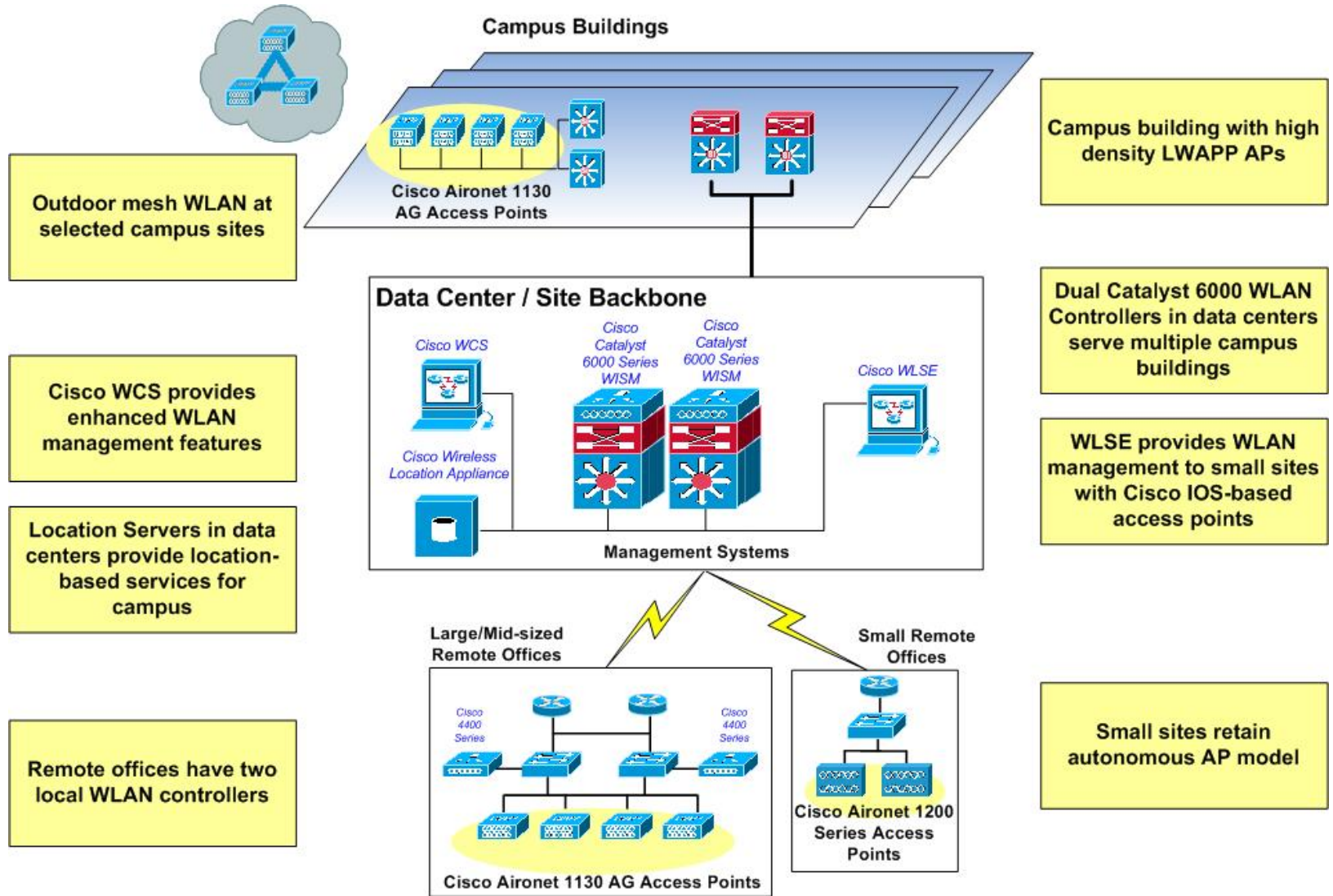
Cisco Aironet 1200 Series access points with Cisco IOS® Software in small offices

- Wireless Service Modules for Cisco Catalyst® 6500 switches

## Solution (Contd.)

- Cisco 4400 Series Wireless LAN Controller appliances in larger field offices
- Cisco Wireless Control System and Cisco Wireless Solution Engine for WLAN management
- Cisco Secure Services Client for employee laptop PCs

# Solution



# Results

## Greater Availability, New Capabilities

- 600% increase in user bandwidth
- 95% reduction in service-impacting incidents
- 30% reduction in operational expense
- Improved prevention of network intrusions and detection of rogue access points
- Ability to deploy new services for users
- Continued productivity gains for employees

# Next Steps

## Enhance the New Infrastructure

- Deploy new user services

  - Outdoor coverage

  - Voice and video over WLAN

  - Location-based services

  - RFID detection

- Increased capabilities for security, problem detection, and self-healing

- Support Layer 3 roaming for coverage continuity

To read the entire case study, or for additional Cisco IT case studies on a variety of business solutions, visit Cisco on Cisco: Inside Cisco IT

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