

## 3Com® Wireless LAN Managed Access Point AP2750

### DATA SHEET



- 3Com's "fit" Managed Access Points keep encryption local to protect network transmissions
- Centralized controls distribute configurations simply and securely to MAPs, enabling savings on management and operational expenses
- More than a simple access point, MAPs gather intelligence about the WLAN through RF scanning and monitoring

### Key Benefits

#### Strengthens Security Implementations and Management from Network to End Users

The 3Com® Wireless LAN Managed Access Point (MAP) AP2750 augments mobile security and provides wireless LAN connectivity for WLAN users. An integral component of 3Com's Wireless LAN Mobility System, the 3Com AP2750 encrypts transmissions to protect data privacy and responds to commands from the Wireless LAN Switch WX1200 or the Wireless LAN Controller WX4400. Because the AP2750 is fully controlled by a Wireless LAN Switch or Controller, it contains no local data-store for sensitive data, eliminating the vulnerability of user or network information being compromised due to hacking or theft. The result is a highly secure access point that reduces capital expenses and responds to management commands to reduce ongoing administration costs – all while keeping the wireless LAN secure.

#### Simplifies Configuration, Control, and Optimization of MAPs

The arduous process of configuring and deploying even a few access points is vastly simplified using 3Com's AP2750. The AP2750 utilizes standards-based integration with the Wireless LAN Switch WX1200 and Controller WX4400 for simple plug-and-play installation. There is no need to pre-configure MAPs, and if one needs replacing, it automatically inherits its configuration from the switch or controller—making it comparable to changing a light bulb. The configuration details for all MAPs are centrally distributed for consistency and accuracy resulting in simplified initial deployments as well as easier long-term management.

Automated network controls at the wireless switch improve MAP coverage and service by optimizing RF gain, assigning radio channels, load balancing and even sweeping the RF environment as required, either continuously, on-demand, or based on your schedule.

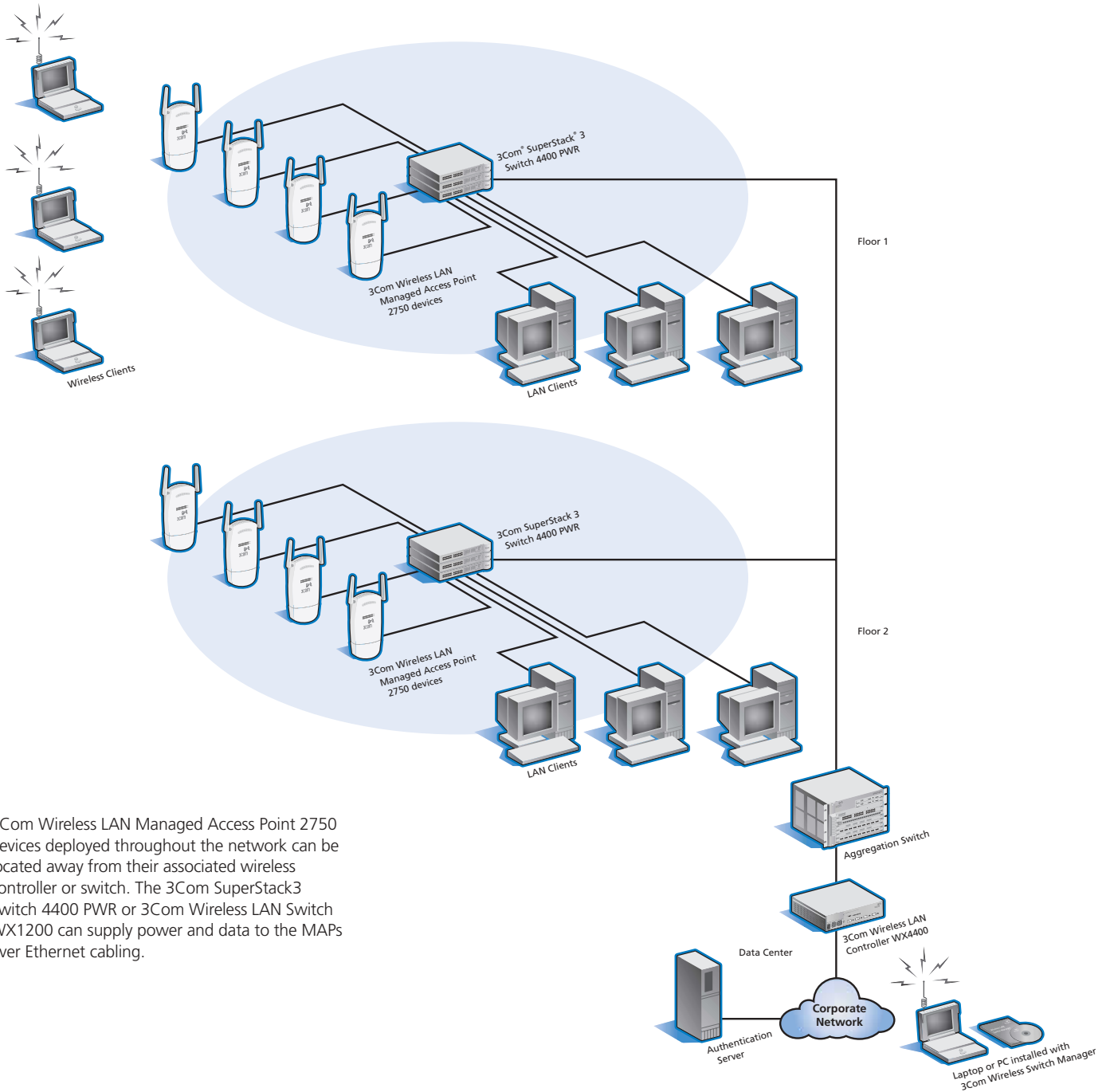
#### Provides Security and Seamless Mobility

MAPs provide local traffic encryption which distributes encryption processing across the network rather than relying on one central device. Continuous, on-demand, or scheduled RF scans can be used not only to locate users but also to identify and isolate potentially harmful rogue access points (APs) or other infiltrators. 3Com wireless switches and controllers integrate with backend authorization/authentication/accounting (AAA) servers, consistently enforcing user and group access policies across the wireless LAN, providing secure session integrity as users roam throughout the network—no reassociation or IT intervention required.

#### Eases Network Integration through Flexible Deployments

Allowing network wiring flexibility, the AP2750 can be linked directly or indirectly to a 3Com Wireless LAN Switch or Controller through existing wired networks, even across Layer 3 boundaries. Additionally, the AP2750 can receive its power via standard PoE (Power over Ethernet) either directly from a Wireless LAN Switch WX1200 or from any 802.11af compliant PoE device.

## Key Applications



3Com Wireless LAN Managed Access Point 2750 devices deployed throughout the network can be located away from their associated wireless controller or switch. The 3Com SuperStack3 Switch 4400 PWR or 3Com Wireless LAN Switch WX1200 can supply power and data to the MAPs over Ethernet cabling.

## Features

	Description
<b>STANDARDS-BASED, HIGH-SPEED ARCHITECTURE</b>	
High-speed wireless performance	Supports 802.11 a or b/g for speeds up to 54 Mbps at distances up to 100 meters (328 feet) for 802.11b/g users, 50 meters or (164 feet) for 802.11a users.
Wi-Fi certified 802.11 a or b/g operation	Dual-mode radio allows operation for 802.11a or 802.11b/g and is software configurable from the 3Com Wireless Switch Manager.
Virtual Access Points	Each AP2750 can handle multiple BSSID/SSIDs to appear as multiple access points.
Supports 802.3af-compatible Power over Ethernet (PoE)	Both data and power are supplied over the same Ethernet cable to the AP2750, eliminating the need for power adapters, power cords or AC outlets.
Dual-mode diversity radio antennas	Dual-mode 802.11a and 802.11b/g antennas provide excellent performance and coverage in high multi-path environments.
Dual-mode external antenna options	Support a variety of external dual-mode antennas for flexible installing options.
<b>SECURITY</b>	
Encryption	Performs packet encryption over the air for dynamic WEP, TKIP and AES.
Virtual Private Groups	Ability to have independently encrypted and isolated subnets or VLANs while using the same SSID.
RF Multi-band Sweep	Any AP2750 can scan the RF environment for both 802.11a and 802.11b/g rogue access points, ad-hoc users or other RF interferers.
Secure MAPs from theft and hacking	There is no local data store of sensitive network information in the MAPs, so if one is stolen no secure information goes with it.
<b>COMPREHENSIVE MANAGEMENT AND CONTROL</b>	
Zero configuration installation	No pre-staging or pre-configuration of access points required and replacement MAPs inherit configuration information from the wireless LAN switch or controller.
Flexible deployment topologies supported	MAPs can be direct and/or indirectly connected to their managing wireless LAN switch and/or controller allowing a wide variety of flexible deployment scenarios.
Automated transmit power and radio channel assignment	Transmit power settings and radio channel assignments can be set to optimize the RF cell size and support international requirements.
Comprehensive MAP control and management	MAPs are not operational in stand alone mode. All Attributes such as channel number, power level, SSIDs, and security settings are all handled by the wireless LAN switch or controller for additional security

## Specifications

### System Requirements

3Com® Wireless LAN Switch WX1200 or 3Com Wireless LAN Controller WX4400 required for MAP operation

### Total Ports

One 10BASE-T/100BASE-TX integrated 802.3af-compatible PoE port with auto-negotiation, serial console port, DC power connector for non-PoE operation

### Media Interfaces

RJ-45, 802.11a, 802.11b, 802.11g, DB-9

### Data Rates

802.11g/a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps with automatic fallback

802.11b: 11, 9, 5.5, 2, 1 Mbps with automatic fallback

### Frequency Band

802.11a: 5 GHz

802.11b/g: 2.4 GHz

### Modulation Technique

DSSS (Direct Sequence Spread Spectrum)

OFDM (Orthogonal Frequency Division Multiplexing)

### Media Access Protocol

CSMA/CA

### Operating Channels

Channel availability depends on local country regulations. Wireless LAN system administrator must choose correct country of operation. Channels are then automatically configured to comply with specified country's regulations.

### Operating Range

802.11a: up to 50 meters (164 feet) transmit and receive

802.11b/g: up to 100 meters (328 feet) transmit and receive

### Antennas

Two dual-band 2.4-2.48/5.15-5.85 GHz, 2 dBi omnidirectional antennas ship with the AP2750; additional optional antennas available, see Ordering Information

### Transmit Power Settings

Based on the regulatory domain set by the system administrator, not to exceed the following:

802.11a

6 Mbps: ≥+20 dBm

9 Mbps: ≥+20 dBm

12 Mbps: ≥+20 dBm

18 Mbps: ≥+20 dBm

24 Mbps: ≥+19 dBm

36 Mbps: ≥+19 dBm

48 Mbps: ≥+16 dBm

54 Mbps: ≥+16 dBm

802.11b:

1 Mbps:

2 Mbps: ≥+20 dBm

5.5 Mbps: ≥+20 dBm

11 Mbps: ≥+20 dBm

802.11g:

6 Mbps: ≥+20 dBm

9 Mbps: ≥+20 dBm

12 Mbps: ≥+20 dBm

18 Mbps: ≥+20 dBm

24 Mbps: ≥+19 dBm

36 Mbps: ≥+19 dBm

48 Mbps: ≥+17 dBm

54 Mbps: ≥+17 dBm

### Receive Sensitivity

802.11a

6 Mbps: ≤-87 dBm

9 Mbps: ≤-86 dBm

12 Mbps: ≤-84 dBm

18 Mbps: ≤-82 dBm

24 Mbps: ≤-79 dBm

36 Mbps: ≤-75 dBm

54 Mbps: ≤-71 dBm

## Specifications, *continued*

### 802.11b:

1 Mbps: ≤-95 dBm  
 2 Mbps: ≤-92 dBm  
 5.5 Mbps: ≤-91 dBm  
 11 Mbps: ≤-88 dBm

### 802.11g:

6 Mbps: ≤-89 dBm  
 9 Mbps: ≤-89 dBm  
 12 Mbps: ≤-88 dBm  
 18 Mbps: ≤-89 dBm  
 24 Mbps: ≤-85 dBm  
 36 Mbps: ≤-81 dBm  
 48 Mbps: ≤-77 dBm  
 54 Mbps: ≤-73 dBm

### Power Consumption

6W maximum (PoE port or external power adapter)

### Security

Ver. 1 and 2 48/104-bit WEP, WPA, and 128-bit AES encryption, multiple broadcast SSID support at the MAP; IEEE 802.1X network login or 802.1X RADIUS authentication; access control lists (ACLs); VLAN and VPN support; 802.11i draft support at the switch/controller

### Management

Central management with Web browser via local console or remotely over SSL or HTTPS; command line interface via local console or remotely over SSH v2 or Telnet; 3Com® Wireless Switch Manager

### LEDs

Power, 10/100 Mbps Link status, 802.11a, 11b, or 11g Activity

### Standards Conformance

IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.3, IEEE 802.3af, IEEE 802.1X, IEEE 802.11i (draft), WEP, WPA, AES, Wi-Fi Certified

### Regulatory/Agency Approvals

**Safety:** UL 60950 2000 +ZB &ZC deviations, EN60950 1999, CSA 22.2 60950 3rd edition; NOM-119 SCFI; AS/NZS 60950 2000

**EMC/EMI:** EN55022 Class A, FCC 15 Subpart B Class A, EN 60111 3-2, ICES-003 Class A, VCCI Class A, CNS 13438 Class A, EN55024

### Dimensions and Weight

**Height:** 26.7 cm (6.5 in)  
**Width:** 8.3 cm (3.25 in)  
**Depth:** 3.2 cm (1.25 in)  
**Weight:** 0.2 g (6.5 oz)

### Environmental Ranges

**Operating temperature:** -10 to 40°C (14 to 122°F)  
**Storage temperature:** -40 to 80°C (-40 to 176°F)  
**Humidity:** 5 to 95% non-condensing

### Package Contents

3Com Wireless LAN Access Point 2750  
 Two dual-band 2.4/5.15 GHz antennas  
 Four rubber feet  
 Mounting hardware  
 Quick Start guide  
 Warranty booklet

### Warranty

One year hardware warranty with 90 days free technical support. Refer to [www.3com.com/warranty](http://www.3com.com/warranty) for details.

## Ordering Information

PRODUCT DESCRIPTION	3COM SKU
<b>3Com Wireless LAN Managed Access Points</b>	
3Com® Wireless LAN Managed Access Point AP2750 <sup>1,5</sup>	3CRWX275075A
<b>3Com Wireless LAN Controller WX4400</b>	
3Com Wireless LAN Controller WX4400 <sup>1,2</sup>	3CRWX440095A
<b>Options for the Wireless LAN Controller WX4400</b>	
3Com Wireless LAN Controller WX4400 24 MAP License Upgrade <sup>3</sup>	3CWX4400L24A
3Com Wireless LAN Controller WX4400 Spare Power Supply	3CWX4400RPSA
3Com 1000BASE-SX GBIC	3CGBIC91
3Com 1000BASE-LX GBIC	3CGBIC92
<b>3Com Wireless LAN Switch WX1200</b>	
3Com Wireless LAN Switch WX1200 <sup>1,2</sup>	3CRWX120695A
<b>3Com Wireless LAN Switch Manager</b>	
3Com Wireless LAN Switch Manager <sup>2</sup>	3CWXM10A
<i>Supports up to 10 3Com wireless LAN controllers and/or switches</i>	
3Com Wireless LAN Switch Manager Unlimited Upgrade <sup>4</sup>	3CWXMUPA
<b>Related 3Com Wireless LAN Mobility System Products</b>	
3Com SuperStack® 3 Switch 4400 PWR	3C17205

Note 1: Not available in all countries – please check with your local reseller or 3Com office for local availability.

Note 2: Software upgrades are only available to customers with 3Com maintenance agreements.

Note 3: Up to three 24-MAP licenses can be purchased per WX4400 wireless controller, supporting a total of up to 96 MAPs per WX4400 wireless controller.

Note 4: Upgrades 3CWXM10A to support an unlimited number of wireless switches and/or controllers.

Note 5: Operates only with a 3Com Wireless LAN Switch WX1200 or 3Com Wireless LAN Controller WX4400.



**3COM**  
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3Com Corporation, Corporate Headquarters, 350 Campus Drive, Marlborough, MA 01752-3064

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