

Strengthen wireless security and mobility while consolidating user and RF management from network edge to core

OVERVIEW

3Com® wireless LAN Managed Access Points (MAPs) deliver secure, reliable connectivity for WLAN users. An integral component of the 3Com Wireless LAN Mobility System, the 3Com MAP 3750, MAP 3150 and MAP 2750 encrypt transmissions to protect data privacy. Fully controlled by a WLAN switch or controller, they contain no local data store for sensitive data, eliminating the chance of information being compromised due to hacking or theft. The end result helps reduce capital expenses and ongoing administrative costs—all while keeping the wireless LAN secure.

KEY BENEFITS

SIMPLIFY CONFIGURATION, CONTROL AND OPTIMIZATION

With remote management, the arduous process of initially configuring and deploying access points (APs) is vastly simplified because configuration settings are centrally distributed for consistency and accuracy. And for easier long-term management, any added MAPs inherit configuration settings from their wireless switch or controller. Automated network controls at the wireless switch improve MAP coverage and service by optimizing RF gain, assigning radio channels, balancing traffic loads and monitoring the RF environment.

DELIVER SECURITY AND SEAMLESS MOBILITY

Local traffic encryption distributes the encryption processing across the network rather than relying on one central device. Continuous, on-demand, or scheduled RF scans can be used to locate users and identify and isolate potentially harmful rogue APs or other vulnerabilities. 3Com wireless switches and controllers integrate with backend Authorization/Authentication/Accounting (AAA) servers, consistently enforcing user and group access policies across the wireless LAN to provide secure session integrity as users roam throughout the network. No re-association or IT intervention is required.

EASE NETWORK INTEGRATION THROUGH FLEXIBLE DEPLOYMENTS

For operational flexibility, the MAP 2750, 3150 and 3750 can be linked directly or indirectly to a 3Com WLAN switch or controller through existing wired networks, even across Layer 3 boundaries. For additional installation flexibility, the 3Com WLAN switch can also supply the MAPs with power, as well as data, directly over standard Ethernet cabling. The MAP 3150 and 3750 support both IEEE 802.11a and 802.11g users simultaneously; administrators can mix and match radio bands to meet different coverage and bandwidth needs.



from left: 3Com Wireless LAN Managed Access Points 2750, 3150 and 3750

KEY BENEFITS

(CONTINUED)

BOOST RELIABILITY AND RESILIENCY

The MAP 3750 offers dual Ethernet ports with Power over Ethernet (PoE) support. With automatic failover capability for both data and electrical power, the MAP 3750 adds a level of redundancy for demanding environments and increases network uptime.

FEATURES

STANDARDS-BASED, HIGH-SPEED ARCHITECTURE

Dual-band operation› The software-configurable dual-mode radio on the MAP 2750 operates in 802.11a or 802.11b/g bands. The MAP 3150 and 3750 radios supports IEEE 802.11a and 802.11b/g simultaneously for user flexibility.

High-speed wireless performance› IEEE 802.11a offers speeds up to 54 Mbps at distances up to 50 meters (164 feet); IEEE 802.11g offers speeds up to 54 Mbps at distances up to 100 meters (328 feet).

Diversity radio antennas› For excellent performance and coverage in high multi-path environments, the MAP 2750 and 3150 ship with external dual-band omnidirectional antennas; the MAP 3750 has integrated (internal) omnidirectional antennas.

SECURITY

Strong, multiple encryption› IEEE 802.11i WPA2 Advanced Encryption Standard (AES), WPA dynamic Temporal Key Integrity Protocol (TKIP) and Wi-Fi Equivalent Privacy (WEP) packet encryption help ensure strong data security.

Virtual private group support› Administrators can independently encrypt and isolate subnets or VLANs using the same SSID.

RF multi-band sweeps› Scans of the RF environment search for rogue access points, ad-hoc users and sources of RF interference.

Theft- and hacker-safe› No local data store of sensitive network data means that if a MAP is stolen, no secure information goes with it.

INSTALLATION EASE AND FLEXIBILITY

Simple installation› No pre-staging or pre-configuration is required for new MAPS; replacement MAPs inherit configuration information from their WLAN switch or controller.

Flexible deployment topologies› MAPs can be directly and/or remotely connected to their WLAN switch and/or controller, offering a wide variety of flexible deployment scenarios.

PoE support› Both data and power are supplied by a 3Com wireless switch or any 802.11af-compliant device over Ethernet cabling, eliminating the need for power adapters, power cords, or AC outlets.

Dual-mode external antenna options› A variety of external dual-mode antennas are supported for flexible installing options.

RESILIENCY

PoE and data port redundancy› If the MAP loses either the LAN or PoE connection on either port, it will automatically failover to the other port, increasing network uptime (MAP 3750 only).

COMPREHENSIVE MANAGEMENT AND CONTROL

Automated transmit power and radio channel assignment› Transmit power settings and radio channel assignments can be set to optimize the RF cell size and to support international requirements.

Remote management› Channel number, power level, SSIDs and security settings are all handled by the wireless LAN switch or controller for additional security; MAPs are not operational in stand-alone mode.

SPECIFICATIONS	MAP 2750	MAP 3150	MAP 3750
SYSTEM REQUIREMENTS	3Com Wireless LAN Controller WX4400, Wireless LAN Controller WX2200, Wireless LAN Switch WX1200, or WXR100 Remote Office Wireless LAN Switch; 3Com Wireless LAN Switch Manager (recommended)		
TOTAL PORTS			
10BASE-T/100BASE-TX IEEE 802.3af-compatible PoE port with auto-negotiation	1	1	2
MEDIA INTERFACES	RJ-45; IEEE 802.11a, 802.11b, 802.11g		
DATA RATES			
IEEE 802.11a/g	54, 48, 36, 24, 18, 12, 9, 6 Mbps; Orthogonal Frequency Division Multiplexing (OFDM), with automatic fallback		
IEEE 802.11b	11, 5.5, 2, 1 Mbps; Complementary Code Keying (CCK), with automatic fallback		
FREQUENCY BAND			
IEEE 802.11a	5.15-5.825 GHz		
IEEE 802.11b/g	2.4 GHz		
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			
IEEE 802.11a:	up to 50 meters (164 ft) transmit and receive		
IEEE 802.11b/g	up to 100 meters (328 ft) transmit and receive		
DIVERSITY ANTENNAS	Two external dual-band 2.4-2.48/5.15-5.825 GHz, 2dBi omni-directional antennas Additional optional antennas are also available on the 3750		Two internal (integrated) dual-band 2.4-2.48/5.15-5.825 GHz, 2dBi omnidirectional antennas
TRANSMIT POWER SETTINGS	Power settings for the US, in accordance with FCC regulations, are shown first below. In Europe, the Middle East, and many other countries the output power level is further restricted and these limits are shown between the {} symbols. The product will not exceed these output limits whenever such regulatory restrictions apply.		
IEEE 802.11a			
6 to 24 Mbps	≥20 dBm {18 dBm}	≥18 dBm	≥20 dBm {18 dBm}
24 to 36 Mbps	≥19 dBm {18 dBm}	≥18 dBm	≥19 dBm {18 dBm}
48 to 54 Mbps	≥16 dBm {16 dBm}	≥16 dBm	≥16 dBm {16 dBm}
IEEE 802.11b/g			
1 to 24 Mbps	≥19 dBm {18 dBm}	≥18 dBm	≥20 dBm {18 dBm}
36 Mbps	≥19 dBm {18 dBm}	≥18 dBm	≥17 dBm {17 dBm}
48 to 54 Mbps	≥19 dBm {18 dBm}	≥16 dBm	≥17 dBm {17 dBm}
RECEIVE SENSITIVITY			
IEEE 802.11a			
6 Mbps	≤-87 dBm	≤-87 dBm	≤-86 dBm
12 Mbps	≤-84 dBm	≤-84 dBm	≤-84 dBm
24 Mbps	≤-79 dBm	≤-79 dBm	≤-78 dBm
36 Mbps	≤-75 dBm	≤-75 dBm	≤-75 dBm
48 Mbps	≤-72 dBm	≤-72 dBm	≤-69 dBm
54 Mbps	≤-71 dBm	≤-71 dBm	≤-67 dBm
IEEE 802.11b/g			
1 Mbps	≤-95 dBm	≤-95 dBm	≤-93 dBm
2 Mbps	≤-92 dBm	≤-92 dBm	≤-90 dBm
5.5 Mbps	≤-91 dBm	≤-91 dBm	≤-88 dBm
6 Mbps	≤-89 dBm	≤-89 dBm	≤-88 dBm
11 Mbps	≤-88 dBm	≤-88 dBm	≤-85 dBm
12 Mbps	≤-86 dBm	≤-86 dBm	≤-86 dBm
24 Mbps	≤-81 dBm	≤-81 dBm	≤-80 dBm
36 Mbps	≤-77 dBm	≤-77 dBm	≤-77 dBm
48 Mbps	≤-73 dBm	≤-73 dBm	≤-72 dBm
54 Mbps	≤-72 dBm	≤-72 dBm	≤-71 dBm
ANTENNA	2 removable 2dB gain antennas with R-SMA connectors for external antennas.		2 R-SMA connectors for external antennas
POWER CONSUMPTION (from PoE ports)	6 W maximum	7.2 W maximum (both radios active)	11a mode: 10 W; 11g mode: 10 W; 11 a+b/g mode: 12.95 W
SECURITY			
WEP 40-/64- and 104-/128-bit encryption	Yes	Yes	Yes
TKIP WPA and WPA2 (IEEE 802.11i/RSN) 64- and 128-bit AES encryption	Yes	Yes	Yes
Multiple broadcast SSID support at the MAP	Yes	Yes	Yes

SPECIFICATIONS (CONTINUED)	MAP 2750	MAP 3150	MAP 3750
IEEE 802.1X network login	Yes	Yes	Yes
IEEE 802.11i or 802.1x RADIUS authentication	Yes	Yes	Yes
Access Control Lists (ACLs) and VLAN support at the wireless switch/ controller	Yes	Yes	Yes
Kensington Security Slot	No	Yes	Yes
MANAGEMENT	Remote management with Web browser over SSL or HTTPS; command line interface over SSH v2 or Telnet		
LEDS	Power, 10/100 Mbps, 802.11a, 11b or 11g activity	Power, 10/100 Mbps, 802.11b/g or 11a activity	Radio 1, radio 2, health
STANDARDS CONFORMANCE	IEEE 802.11a, 802.11b, 802.11g, 802.11i, 802.3, 802.3af, 802.1X; WEP, AES, WPA, WPA2, Wi-Fi CERTIFIED		
REGULATORY/AGENCY APPROVALS			
Safety	UL 60950 2000 +ZB and ZC deviations, EN 60950 1999, CSA 22.2 60950 3rd edition, NOM-119 SCFI, AS/NZS 60950 2000		
EMC/EMI	EN 55022 Class A, FCC 15 Subpart B Class A, EN 60111 3-2, ICES-003 Class A, VCCI Class A, CNS 13438 Class A, EN 55024		
DIMENSIONS AND WEIGHT			
Height	16.6 cm (6.50 in)	15.9 cm (6.25 in)	16.8 cm (6.60 in)
Width	8.3 cm (3.25 in)	21.9 cm (8.63 in)	16.8 cm (6.60 in)
Depth	3.2 cm (1.25 in)	4.1 cm (1.63 in)	4.7 cm (1.85 in)
Weight	200 g (7.0 oz)	544 g (1.2 lb)	354 g (12.5 oz)
ENVIRONMENTAL RANGES			
Operating temperature	-10 to 40°C (14 to 104°F)		0 to 50°C (32 to 122°F)
Storage temperature	-40 to 70°C (-40 to 158°F)		
Humidity	10 to 95% non-condensing		
PACKAGE CONTENTS			
3Com WLAN managed access point	Yes	Yes	Yes
Two external dual-band 2.4-2.48/5.15-5.825 GHz antennas	Yes	Yes	N/A
Mounting hardware	Yes	Yes	Yes
CAT 5 cable	N/A	1.6 m	N/A
Quick Start guide	Yes	Yes	Yes
Product operating range sheet	N/A	Yes	N/A
Warranty booklet	Yes	Yes	Yes
WARRANTY AND OTHER SERVICES	Limited Hardware Warranty for one year. 90 days free technical support. Refer to www.3com.com/warranty for details.		

ORDERING INFORMATION

PRODUCT DESCRIPTION

3Com Wireless LAN Managed Access Point 2750	3CRWX275075A
3Com Wireless LAN Managed Access Point 3150	3CRWX315075A
3Com Wireless LAN Managed Access Point 3750	3CRWX375075A

Wireless LAN Managed Access Point Antenna Options

3Com 6/8dBi Dual Band Omni Antenna	3CWE591
3Com 3/4dBi Dual Band Ceiling Mount Antenna	3CWE592
3Com 4/6dBi Dual Band Hallway Antenna	3CWE597
3Com 8/10dBi Dual Band Panel Antenna ¹	3CWE598
3Com Ultra Low Loss 6 Foot Antenna Cable	3CWE580

Wireless LAN Controller, Switches and Software²

3Com Wireless LAN Controller WX4400	3CRWX440095A
3Com Wireless LAN Controller WX2200	3CRWX220095A
3Com Wireless LAN Switch WX1200	3CRWX120695A
3Com WXR100 Remote Office Wireless LAN Switch	3CRWXR10095A
3Com Wireless LAN Switch Manager	3CWXM10A

3Com Global Services

3Com Wireless LAN Site Survey, Network Health Check, Installation Services and Express SM Maintenance	www.3com.com/services_quote
3Com University Courses	www.3com.com/3comu

¹ For use only with the MAP 3750.

² LAN Controller or LAN Switch and Switch Manager software required for operation of managed access point.

Visit www.3com.com for more information about 3Com secure converged network solutions.

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