



CAROLINA ADVANCED DIGITAL, INC
IT INFRASTRUCTURE | SECURITY | MANAGEMENT

www.cadinc.com | 800.435.2212



SonicWALL Clean Wireless Networking Solutions

CLEAN WIRELESS

High-performance clean wireless networking solutions

- **Comprehensive wireless security**
- **Exceptional wireless performance**
- **Central WLAN management**
- **Enhanced wireless reliability**
- **Flexible wireless deployment options**
- **Virtual Access Point (VAP) segmentation**
- **Broad protocol support**
- **Granular security policy enforcement**
- **Discreet wireless access point deployment**
- **Fair wireless bandwidth allocation**

The demands on organizations' wireless networks—such as increased connection counts, bandwidth consumption, need for seamless roaming and extended perimeters—are all taxing on performance, and complicate the management of existing 802.11 wireless network infrastructures. The challenge facing many businesses is how to preserve compatibility with legacy 802.11 technologies, while enhancing and optimizing their wireless networks through centralized management and control across all nodes of the WLAN, and at the same time, maintaining maximum security.

The SonicWALL® Clean Wireless™ solutions combine high-performance 802.11n technology with enterprise-class network security appliances to deliver unparalleled wireless network security and performance while dramatically simplifying the set-up and management of any 802.11-based wireless network.

The solution is based on SonicWALL SonicPoint-Ni, SonicPoint-Ne and SonicPoint-N Dual-Band access points, which support the IEEE 802.11 a/b/g/n standards, to provide secure, higher speed access to data, voice and video over high-bandwidth wireless LANs. Scalable to networks of any size, SonicWALL SonicPoint access points require no pre-configuration, as they are centrally configured and managed by any current SonicWALL TZ or network security appliance – no additional wireless access controller is required.

The seamless integration of wireless access points with best-in-class Next-Generation Firewall security and advanced Application Intelligence and Control technology ensures that wireless traffic is scrutinized with the same intensity as wired network traffic. As a result, IT administrators can build and easily manage high-performance, distributed wireless networks with unified policy management across both the wireless and wired networks.

Features and Benefits

Comprehensive wireless security features include Wireless Intrusion Detection Services (WIDS), wireless firewalling, secure Layer 3 wireless roaming, IEEE 802.11d multi-country roaming, and integrated Wireless Guest Services (WGS) to enforce password access for customers and other third-party guests.

Exceptional wireless performance features include 40 MHz channels and packet aggregation to support data rates of up to 300 Mbps. Dual-Band supports operation on either 2.4 GHz or 5.0 GHz networks.

Central WLAN management can be administered using SonicWALL TZ 210/200/100, NSA or E-Class NSA Series firewalls, and requires no pre-configuration of the SonicPoint devices.

Enhanced wireless reliability is delivered using Multiple-Input Multiple-Out (MIMO) technology that uses multiple antennas as both the transmitter and the receiver to enhance throughput and reliability.

Flexible wireless deployment options include wall or ceiling mounting; and 802.3af Power over Ethernet (PoE) for easy deployment where electrical outlets are not readily accessible. SonicPoint-Ne Dual-Band access points can also be powered directly through an AC adapter.

Virtual Access Point (VAP) segmentation enables up to eight SSIDs to have dedicated authentication and privacy settings while sharing the same physical infrastructure, providing logical segmentation of secure wireless network traffic and secure customer access.

Broad protocol support includes 802.11 a/b/g/n, WPA2 and WPA, allowing businesses to leverage prior investments in devices that are incapable of supporting higher encryption standards, while easing migration to 802.11n.

Granular security policy enforcement allows the implementation of firewall rules to all wireless traffic, and controls all wireless client communications to any host on the network—wired or wireless.

Discreet wireless access point deployment features light and logo covers, controllable LED (except power) and internal antennas (on SonicPoint-Ni models).

Fair wireless bandwidth allocation guarantees a minimum amount of bandwidth to each wireless client in order to prevent disproportionate bandwidth consumption by a single user.



DYNAMIC SECURITY FOR THE GLOBAL NETWORK™

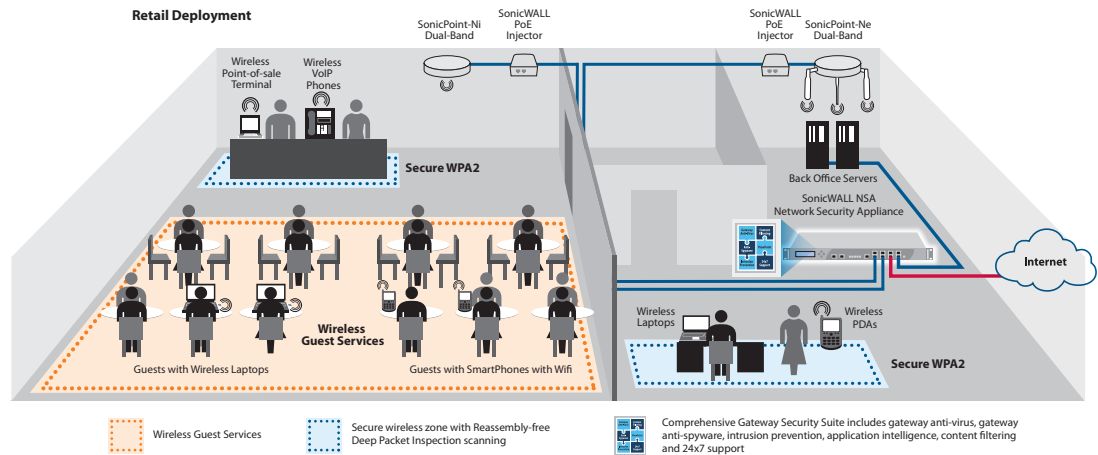
SonicWALL Clean Wireless Networking Solutions

Scenario 1: Small Retail Shop/Medical or Dental Office

Retail, medical or dental businesses can combine SonicPoint access points with SonicWALL Network Security Appliances to quickly extend wireless network access, while providing Reassembly-Free Deep Packet Inspection™ (RFDPI) for both wired and wireless traffic at the gateway, before allowing access to sensitive resources. SonicWALL Wireless Guest Services (WGS) offers password-enforced customer access to the Internet, while SonicWALL Virtual Access Points (VAPs) provide logical segmentation of secure wireless networks traffic and in-the-clear customer access.

- SonicPoint-Ni, SonicPoint-Ne and SonicPoint-N Dual-Band with 802.11n provide faster wireless access with greater range and better reliability

- SonicPoints enable employees to securely access network resources from the wireless network using SSL VPN or WPA2
- Virtual Access Points (VAPs) create secure segmentation between trusted and un-trusted wireless users by allowing broadcast of up to eight unique SSIDs
- SonicWALL Reassembly-Free Deep Packet Inspection scans all wireless traffic for vulnerabilities and threats
- SonicWALL Wireless Guest Services (WGS) allows customers to take advantage of wireless network access
- Provides auto-provisioning and centralized management for all SonicPoints deployed in the network



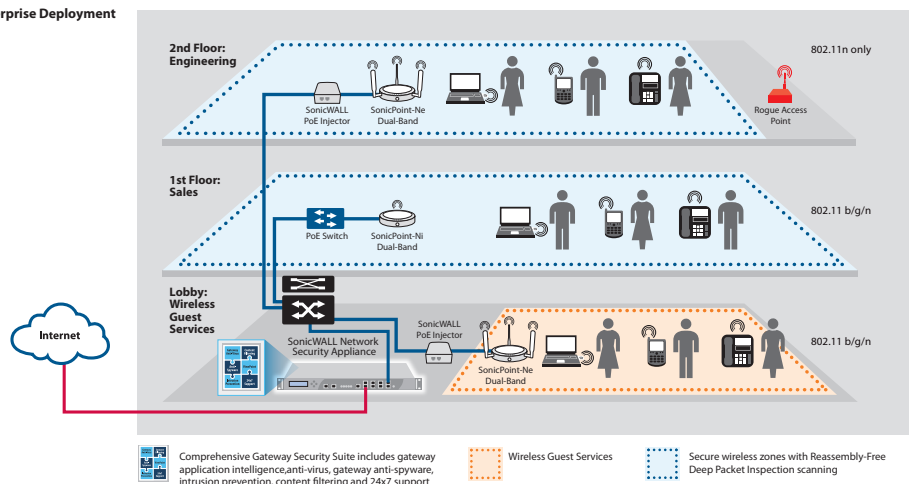
Scenario 2: Clean Wireless Solution

In distributed organizations, SonicPoint-Ni, SonicPoint-Ne and SonicPoint-N Dual-Band automatically contact SonicWALL's current TZ and Network Security Appliances (NSAs) to auto-provision the latest firmware and configurations, easing rapid deployment. SonicWALL firewalls offer a single point of wireless monitoring and management, lowering total cost of infrastructure ownership. SonicPoint-Ni, SonicPoint-Ne and SonicPoint-N Dual-Band come with built-in wireless Intrusion Detection Systems (IDS) to scan for rogue access points and prevent unauthorized access.

- SonicPoint-Ni, SonicPoint-Ne and SonicPoint-N Dual-Band with 802.11n provide faster wireless access with greater range and better reliability

- SonicPoint-Ni, SonicPoint-Ne and SonicPoint-N Dual-Band auto-discover the central management gateway, easing deployment
- SonicPoints enable employees to securely access network resources from the wireless network using SSL VPN or WPA2
- SonicWALL RFDPI comprehensively scans all wireless traffic for vulnerabilities and threats
- Virtual Access Points (VAPs) create secure segmentation between trusted and un-trusted wireless users by allowing broadcast of up to eight unique SSIDs

Enterprise Deployment

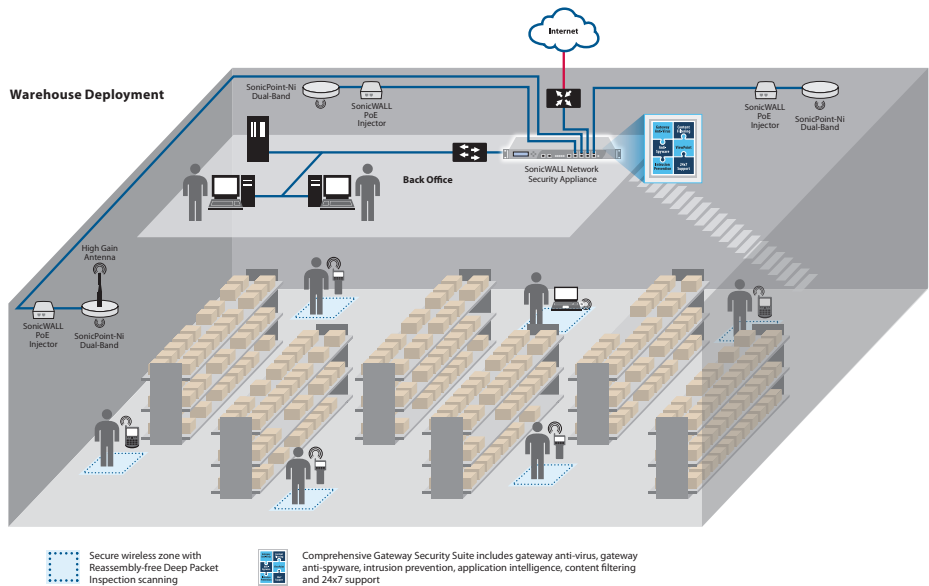


Scenario 3: Warehouse Deployment

In warehouse deployments, SonicPoint-Ni, SonicPoint-Ne and SonicPoints-N Dual-Band automatically contact a SonicWALL Network Security Appliance (NSA) to auto-provision the latest firmware and configurations, simplifying rapid wireless deployment. SonicWALL NSAs, TZs or network security appliance offer a single point of wireless monitoring and management, lowering total cost of infrastructure ownership. SonicPoint-Ni, SonicPoint-Ne and SonicPoint-N Dual-Band come with built-in wireless IDS to scan for rogue access points and prevent unauthorized access.

- SonicPoint-Ni, SonicPoint-Ne and SonicPoint-N Dual-Band with 802.11n provide faster wireless access with greater range and better reliability

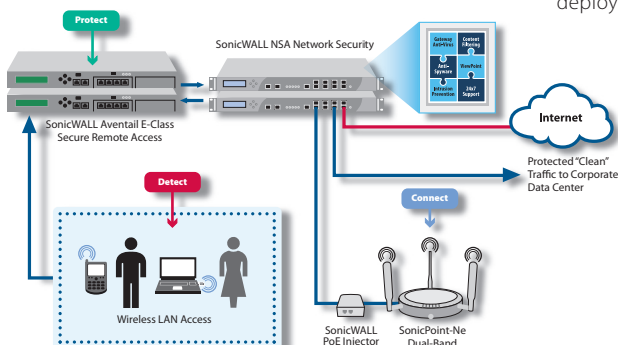
- SonicPoint-Ni, SonicPoint-Ne and SonicPoint-N Dual-Band auto-discover the central management gateway, easing deployment
- SonicWALL allows employees to securely access network resources from the wireless network using SSL VPN or WPA2
- SonicWALL RFDPI comprehensively scans all wireless traffic for vulnerabilities and threats
- Virtual Access Points (VAPs) create secure segmentation between trusted and un-trusted wireless users by allowing broadcast of up to eight unique SSIDs
- SonicWALL TZ and NSA Series firewalls provide auto-provisioning and central management for all SonicPoints deployed in the network



Scenario 4: Enterprise Wireless and SonicWALL Aventail E-Class SRA

In distributed wireless environments where there's a need to support additional endpoint security and Network Access Control (NAC), network administrators can deploy SonicPoints in conjunction with an E-Class NSA appliance and SonicWALL Aventail E-Class Secure Remote Access (SRA) appliance. The combined solution not only provides distributed wireless connectivity and centralized SonicPoint management, but also endpoint enforcement and interrogation ensuring that all wireless users systems have the proper system configuration before gaining access to secure network resources.

- Enforces policy across disparate points of entry, allowing granular access control for collaboration and compliance
- Easy-to-use, providing the core elements of Network Access Control today and a foundation for NAC initiatives for the future
- SonicWALL 802.11n solutions provide faster wireless access with greater range and better reliability
- Virtual Access Points (VAPs) create secure segmentation between trusted and un-trusted wireless users by allowing broadcast of up to eight unique SSIDs
- SonicWALL TZ and NSA Series firewalls provide auto-provisioning and central management for all SonicPoints deployed in the network



- Detect** SonicWALL Aventail's Endpoint Control continually detects the identity and security state of the end device
 - Protect** SonicWALL Aventail Unified Policy enforces devices access control, ensuring users access only to authorized applications
 - Connect** SonicWALL Aventail Smart Access and Smart Tunneling ensure easy, secure user access to all network resources
- Comprehensive Gateway Security Suite includes gateway anti-virus, gateway anti-spyware, intrusion prevention, application intelligence, content filtering and 24x7 support
- Secure wireless zone with Reassembly-Free Deep Packet Inspection scanning

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Specifications



SonicWALL SonicPoint-Ni Dual-Band with PoE Injector
01-SSC-8575

SonicWALL SonicPoint-Ni Dual-Band 4-Pack Bundle without PoE Injector
01-SSC-8588

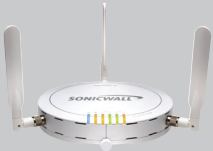
SonicWALL SonicPoint-Ni Dual-Band 8-Pack Bundle without PoE Injector
01-SSC-8592



SonicWALL SonicPoint-Ne Dual-Band with PoE Injector
01-SSC-8577

SonicWALL SonicPoint-Ne Dual-Band 4-Pack Bundle without PoE Injector
01-SSC-8590

SonicWALL SonicPoint-Ne Dual-Band 8-Pack Bundle without PoE Injector
01-SSC-8579



SonicPoint-N Dual-Band Bundled with PoE Injector
01-SSC-8567

4-pack SonicPoint-N Dual-Band without PoE Injector
01-SSC-8568

8-pack SonicPoint-N Dual-Band without PoE Injector
01-SSC-8569



PoE Injector 802.3af Gigabit N
01-SSC-5544

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	SonicPoint-Ni Dual-Band	SonicPoint-Ne Dual-Band	SonicPoint-N Dual-Band
Hardware Specifications			
Dimensions	4.9 in (L) x 4.9 in (W) x 1.18 cm (H) 15 cm(L) x 15 cm(W) x 3 cm (H)		7.5 in (L) x 7.5 in (W) x 1.5 in (H); 19.1 cm (L) x 19.1 cm (W) x 5.8 cm (H)
Weight	0.595 lbs; 0.27 kg		1.25 lbs; 0.56 kg
PoE Power Requirements	802.3af/0.35A		
Power Supply	PoE Only	PoE and AC Adapter	PoE Only
Status Indicators	Six (6) LED (WLAN, Link/Act) (LAN, Link/Act) Power, Wrench		
Antennas	Fully Internal	3 External SMA antenna interfaces	3 Detachable External Antennas, TNC antenna interfaces
Wired Network Ports	1 10/100/1000 auto-sensing RJ-45 port for Ethernet and Power over Ethernet (PoE); 1 RJ-45 console port		
Mechanical	Wall or ceiling mount kit, Logo and LED Cover		Wall or ceiling mount kit
Virtual Access Points	Up to 8 per SonicPoint		
Maximum Managed Devices			
Security Appliance	Per WLAN Interface	Per Appliance	
TZ 100/100 Wireless-N	1	1	
TZ 200/200 Wireless-N	2	2	
TZ 210/210 Wireless-N	16	16	
NSA 240	16	16	
NSA 2400/2400MX	32	32	
NSA 3500	48	48	
NSA 4500	64	64	
NSA 5000	64	64	
NSA E5500	96	96	
NSA E6500	128	128	
NSA E7500	128	128	
NSA E8500	128	128	
Standards			
Compliance	IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n draft 2.0, IEEE 802.11i, IEEE 802.3af		
Regulatory	FCC/ICES CE, C-Tick, RoHS, WEEE		
Safety	UL, cUL, TUV-GS, CB, CE		
Environmental			
Temperature Range	32 to 104°F, 0 to 40°C		
Radio Specifications			
Frequency Band	802.11a: 5.180-5.825GHz; 802.11b/g: 2.412-2.472GHz; 802.11n: 12-2.472Ghz, 5.180-5.825Ghz		
Operating Channels	802.11a: US and Canada 9, Europe 15, Japan 8, Singapore 9, Taiwan 4 channels 802.11b/g/n: US and Canada 1-11, Europe 1-13, Japan 1-14		
Dynamic Frequency Selection	Not supported		
Transmit Output Power	Based on the regulatory domain specified by the system administrator		
Transmit Power Control	Supported		
Data Rates Supported	802.11a: 6,9,12,18,24,36,48,54 Mbps per channel; 802.11b: 1,2,5,5,11 Mbps per channel; 802.11g: 6,9,12,18,24,36,48,54 Mbps per channel 802.11n: 6,9,12,18,24,36,48,54, 72, 84, 150 300 Mbps per channel		
Modulation Technology Spectrum	802.11a: Orthogonal Frequency Division Multiplexing (OFDM), BPSK, QPSK, 1-QAM, 64-QAM; 802.11b: Direct Sequence Spread (DSSS), CCK, DBPSK, DQPSK; 802.11g: Orthogonal Frequency Division Multiplexing (OFDM), BPSK, QPSK, 16-QAM, 64-QAM; 802.11n: 802.11n draft 2.0		
Security			
Data Encryption	WPA2; IPsec, 802.11i, WPA; 64/128/152-bit WEP, TKIP, AES, SSL VPN*		
Authentication			
Authentication	RADIUS, Active Directory, Novell e-Directory, SAMBA, Single Sign-on (SSO)		
PoE Injector			
Hardware Specifications			
Number of Ports	2: (1) Data In; (1) Data & Power Out		
Dimensions	1.22(H) in x 2.30(W) in x 5.71(D) in; 31(H) mm x 58.5(W) mm x 145(D) mm		
Weight	1.0 lbs (450g)		
Connectors	Shielded RJ-45, EIA 568A and 568B		
Indicators	System Indicator: AC Power (Green); User Indicator: Channel Power Active (Green)		
Data Rates	10/100/1000 Mbps		
Power over LAN Output			
Pin Assignment and Polarity	4/5 (+), 7/8 (-)TZ 210/210W		
Output Power Voltage	-48 VDC		
User Port Power	15.4 W minimum		
Input Power Requirements			
AC Input Voltage	90 to 264 VAC		
AC Frequency	47 to 63 Hz		
AC Input Currency	0.5A at 100-240 VAC		
Standards and Compliance			
Regulatory Compliance	CE, RoHS, WEEE; Electromagnetic Emission and Immunity; EN 55022, CISPR 22, FCC Part 15, (Class B with FTP cabling); EN 55024, CISPR 24		
Safety Approvals	UL 60950-1; EN 60950; IEC 60950-1		
Environmental Conditions			
Operating Ambient Temperature	32 to 104 °F, 0 to 40 °C		
Operating Humidity	Maximum 90%, non-condensing		
Storage Temperature	-4 to 158 °F, -20 to 70 °C		
Storage Humidity	Maximum 93%, non-condensing		
Operating Altitude	-1,000 to 10,000 ft. (-304.8 to 3,048 m)		

*When used with SonicWALL Secure Remote Access Series appliance.

For more information on SonicWALL secure wireless networking solutions, please visit www.sonicwall.com.

SonicWALL's line-up of dynamic security solutions



NETWORK SECURITY



SECURE REMOTE ACCESS



WEB AND E-MAIL SECURITY



BACKUP AND RECOVERY



POLICY AND MANAGEMENT



DYNAMIC SECURITY FOR THE GLOBAL NETWORK™