DATA SHEET

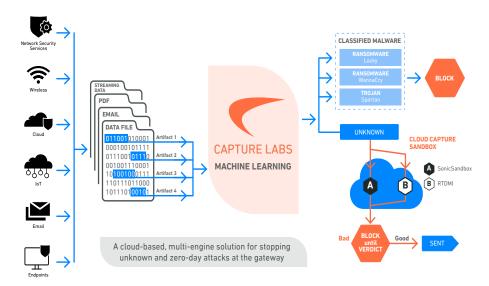
Gen 8: Architecture and Security

Advanced Threat Protection for Today's Evolving Landscape

SonicWall Gen 8 addresses network security challenges for organizations of all sizes, including SOHO, SMBs, and Distributed Enterprises. The core of Gen8 firewall series is the SonicOS architecture.

SonicOS 8 drives performance enhancements and consistency and reliability in network security. It leverages our patented, single-pass, low-latency, Reassembly-Free Deep Packet Inspection® (RFDPI) and patented Real-Time Deep Memory Inspection™ (RTDMI) technologies to deliver industry-validated high security effectiveness, SD-WAN, real-time visualization, high-speed virtual private networking (VPN) and other robust security features.

Our vision for securing networks in today's continually-evolving cyber threat landscape is automated, real-time threat detection and prevention. Through a combination of cloud-based and on-box technologies we deliver protection to our firewalls that's been validated by independent third-party testing for its extremely high security effectiveness. Unknown threats are sent to SonicWall's cloud-based Capture Advanced Threat
Protection (ATP) multiengine sandbox for analysis. Enhancing
Capture ATP is our RTDMITM technology. The RTDMI engine detects and blocks malware and zero-day threats by inspecting directly in memory. RTDMI technology is precise, minimizes false positives, and identifies and mitigates sophisticated attacks where the malware's weaponry is exposed for less than 100 nanoseconds.





In combination, our RFDPI engine examines every byte of every packet, inspecting both inbound and outbound traffic directly on the firewall. By leveraging Capture ATP with RTDMI technology in the SonicWall Capture Cloud Platform in addition to on-box capabilities including intrusion prevention, anti-malware and web/URL filtering, our next-generation firewalls stop malware, ransomware and other threats at the gateway.

SonicOS 8 features advanced security, simplified policy management, and critical networking and management capabilities for advanced enterprises with next-gen SD-Branches and small to medium-sized businesses (SMBs). The OS also enables Wi-Fi 6 support, DNS advanced security, reputation-based content filtering, and Network Access Control (NAC integration).

Gen 8 firewalls enable Zero Trust Network Access (ZTNA) capabilities. This approach ensures that user and device trust are repeatedly verified before granting access to specific applications, regardless of location and endpoint type.

The management plane for Gen 8 firewalls includes SonicWall Unified Management. SonicWall Unified Management brings a unified console experience to managing SonicWall's cybersecurity solutions. Purpose-built for MSPs and MSSPs, SonicWall Unified Management streamlines the security stack into a single pane of glass to make essential security operations easy and efficient. Firewall management is included with Gen 8 firewalls that have support or active security bundles.

Security Suites and Licensing Options

SonicWall NGFWs enable businesses to meet their business needs with simplified licensing. With the latest release, Gen 8 has options for hardware-only¹ and security suites with and without managed firewall services². This simplified licensing delivers enhanced security and operational efficiency on our SMB and Enterprise platforms without the complexity of managing multiple licenses. In addition, with SonicWall's security suites, businesses will mitigate risks of financial loss from security breaches with an embedded cyber warranty of up to \$200K.

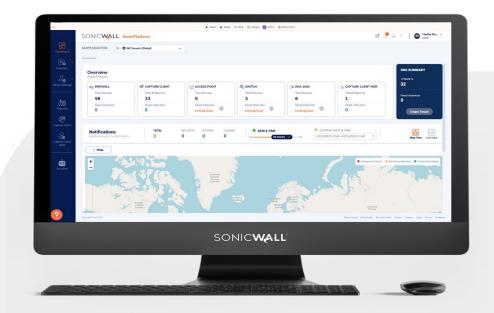
SonicWall Advanced Protection Security Suite (APSS) offers advanced security services, reporting and analytics to protect your networks and drive visibility and operational efficiencies. This licensing option fits the needs of organizations that do not require managed firewall services.

SonicWall Managed Protection Security Suite (MPSS) includes managed firewall services on top of all the services offered in APSS. Our team will monitor your firewall and notify you of downtime or local changes, and will manage all firmware updates for you on your schedule.

- ¹ Hardware-only is not available for TZ80 which requires subscription-based licensing.
- ² TZ80 for SOHO and IoT has Secure Connect Lite, Secure Connect, Advanced Protection and Managed Protection Security Suites. Please refer to TZ80 datasheet for more information.

Visit Security Suites for more information.

Learn More





Enhanced Dashboard

Enhanced Dashboard

Feature	Description	
DNS security	Uses the Domain Name System to block malicious websites or applications and to filter out harmful or inappropriate content.	
Network Access Control (NAC) integration	Provides network access control for SonicWall customers by integrating with Aruba ClearPass. This architecture will turn static security into contextual security to provide more flexible and advanced security protection.	
Wi-Fi 6 support	Integrate and manage Wi-Fi 6 SonicWave access points.	
Secondary storage enhancements	Support packet capture, TSR, and threat correlation data in storage. Save the following logs to storage: threat logs, audit logs, app flow, pcap.	
Token-based registrations	A string that will replace MySonicWall username and password in the bootstrap file used for the NSv bootstrapping process to automate mass deployments with basic configuration and licensing info.	
NS <i>v</i> bootstrapping	Simplify mass NSv deployments; support on VMware, Hyper-V, AWS, and Azure; simplify product registrations using token-based licensing; INIT file includes basic configuration to get the instance ready with minimal configuration.	
Enhanced Dashboard	Dashboard with actionable alerts.	
Enhanced Device View	Display of Front-View, Back-View and Storage Statistics of the hardware is available from the UI Home Tab.	
Real-time System usage and bandwidth usage	User can now view real-time system usage of Core and Bandwidth in the network.	
Summarized traffic distribution	Traffic distribution usage on user's firewall with real-time update of most used application.	
Summary of top users	Summary of top users based on allowed or blocked sessions; by data sent and received.	
Summary of Observed threats	Real-time threat summary of threats seen within customer's network like virus, zero-day malware, spyware, vulnerabilities and risky applications.	
Services Summary	Real-time status of enabled or disabled security services like IPS, GAV, Anti-Spyware, Capture ATP or DPI-SSL.	
Insights on infected hosts	Displaying the total number of infected host machines in the network in real-time.	
Insights on critical attacks	Displaying the total number of mission-critical attacks in the network in real-time.	
Insights on encrypted traffic	Displaying the total number of encrypted traffic in the network in real-time.	
Summary of top applications	Displaying the top applications used in the network with additional options of sorting by sessions, bytes, access-rule blocks, virus, spyware and intrusions.	
Summary of top addresses	Displaying the top address objects used in the network with additional options of sorting by sessions, bytes, access-rule blocks, virus, spyware and intrusions.	
Summary of top users	Displaying the top users used in the network with additional options of sorting by sessions, bytes, access-rule blocks, virus, spyware and intrusions.	
Summary of top website ratings	Displays the top website ratings by session.	
Summary of top country statistics	Displaying the top country statistics by session, dropped traffic, bytes sent or received.	
Summary of real-time threat	Displaying top threats with separate statistics for Virus, Intrusions, Spyware and Botnet by sessions.	
Enhanced Access Point Snapshot	Displaying statistics on Access Point status in the network and Client associations real-time statistics	
Access Point Traffic Rate	Provides real-time bandwidth usage by access-points.	
WiFi Client Report	Provides real-time Wi-Fi client report based on OS type, frequency and top client chart	
Real-Time WiFi Client Monitor	Determines the host machine, OS type, frequency, Access-Point info and data transfer.	
Insights to Capture ATP verdicts	Displays verdicts given for File analysis by Capture ATP.	
Insights to FileTypes	Displays the type of files based on Capture-ATP report.	
Insights to Destination Address	Displays the top destinations being used by malicious files.	
Malware Analysis statistics	Displays in-depth statistics on dynamic vs static malware analysis per file.	
Location based zero-day Attack Origin Analysis	Displays attack origin by countries.	
Capture ATP statistics	Displays insights to total files submitted, dynamically analyzed files, malicious files and average processing time using Capture ATP.	
Network Topology View	Topology View displaying hosts, access-points connected in user's network based on device name, mac-address and IP Address	
API Driven Management	Management of the firewall is API-driven	
SDWAN Wizard	Wizard to automatically configure SDWAN Policy on the firewall	
Notification Center	New notification center with summary of threats, event logs and system alert.	
Improved Online Help	Online help with links to technical documentation on each and every model.	
SDWAN Monitoring	Displays SD-WAN Performance probes and top connections.	
-	Packet Monitor enhanced to include access rule, NAT Rule and route information.	
Enhanced Packet Monitor Utility	Tacket Monitor chilaneed to include access fully, WAT Raic and Toute information.	



	Report supports new report template with customization options like logo, name and sections. Support for	
Capture Threat Assessment	file analysis and malware analysis. Company statistics with industry and Global Average for each section.	
	Separate Executive template with recommendations.	
	System logs including console logs that can be downloaded from diagnostics section without user	
System logs downloads	requiring to connect machine to console port to capture console logs. This simplifies debug methods and	
	time for troubleshooting.	
SSH Terminal on UI	SSH terminal can be accessed from Web UI.	
Grid Check Utility	This utility enables checking IP address of the Grid IP for diagnostics.	
Debug Utility	User can enable debug mode within the same firmware and execute debug commands from SSH terminal	
	within the UI.	
System Diag Utility Tools	Support for more diagnostic tools like GDB, HTOP and Linux Perf Tool.	
Switch Network Overview	SonicWall Switch view like physical view, list view and VLAN view.	
Bandwidth Usage per	ConsistMell Contain Info displays beauthoid the consequent	
SwitchPort	SonicWall Switch Info displays bandwidth usage per port.	
WWAN Status	WWAN Modem and Network status display.	

Firewall Features and Services

Reasseml	oly-Free	Deep Pag	ket Inspection	n (RFDPI) Engine
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Feature	Description
Reassembly-Free Deep Packet Inspection (RFDPI)	This high-performance, proprietary and patented inspection engine performs stream-based, bi-directional traffic analysis, without proxying or buffering, to uncover intrusion attempts and malware and to identify application traffic regardless of port.
Bi-directional inspection	Scans for threats in both inbound and outbound traffic simultaneously to ensure that the network is not used to distribute malware and does not become a launch platform for attacks in case an infected machine is brought inside.
Stream-based inspection	Proxy-less and non-buffering inspection technology provides ultra-low latency performance for DPI of millions of simultaneous network streams without introducing file and stream size limitations, and can be applied on common protocols as well as raw TCP streams.
Highly parallel and scalable	The unique design of the RFDPI engine works with the multi-core architecture to provide high DPI throughput and extremely high new session establishment rates to deal with traffic spikes in demanding networks.
Single-pass inspection	A single-pass DPI architecture simultaneously scans for malware, intrusions and application identification, drastically reducing DPI latency and ensuring that all threat information is correlated in a single architecture.

Firewall and Networking	
Feature	Description
Secure SD-WAN	An alternative to more expensive technologies such as MPLS, Secure SD-WAN enables distributed enterprise organizations to build, operate and manage secure, high-performance networks across remote sites for the purpose of sharing data, applications and services using readily-available, low-cost public Internet services.
REST API	Allows the firewall to receive and leverage any and all proprietary, original equipment manufacturer and third-party intelligence feeds to combat advanced threats such as zero-day, malicious insider, compromised credentials, ransomware and advanced persistent threats.
Stateful packet inspection	All network traffic is inspected, analyzed and brought into compliance with firewall access policies.
High availability	Supports Active/Passive (A/P) with state synchronization.
DDoS/DoS attack protection	SYN flood protection provides a defense against DOS attacks using both Layer 3 SYN proxy and Layer 2 SYN blacklisting technologies. Additionally, it protects against DOS/DDoS through UDP/ICMP flood protection and connection rate limiting.
Flexible deployment options	The firewall can be deployed in wire, network tap NAT or Layer 2 bridge2 modes.
WAN load balancing	Load-balances multiple WAN interfaces using Round Robin, Spillover or Percentage methods. Policy-based routing creates routes based on protocol to direct traffic to a preferred WAN connection with the ability to fail back to a secondary WAN in the event of an outage.
Advanced quality of service (QoS)	Guarantees critical communications with 802.1p, DSCP tagging and remapping of VoIP traffic on the network.
H.323 gatekeeper and SIP proxy support	Blocks spam calls by requiring that all incoming calls are authorized and authenticated by H.323 gatekeeper or SIP proxy.
SonicWall Switch Integration	SonicWall's switches provides seamless integration with firewalls for a single-pane-of-glass management and visibility of your network



Single and cascaded Dell N-Series and X-Series switch management	Manage security settings of additional ports, including Portshield, HA, PoE and PoE+, under a single pane of glass using the firewall management dashboard for Dell's N-Series and X-Series network switches.
Biometric authentication	Supports mobile device authentication such as fingerprint recognition that cannot be easily duplicated or shared to securely authenticate the user identity for network access.
Open authentication and social login	Enable guest users to use their credential from social networking service such as Facebook, Twitter, or Google+ to sign in and access the Internet and other guest services through a host's wireless, LAN or DMZ zones using pass-through authentication.
Multi-domain authentication	Provides a simple and fast way to administer security polices across all network domains. Manage individual policy to a single domain or group of domains.
Full API Support	Complete API support for each and every section of firewall UI.
SDWAN scalability	Scalable tunnel interfaces for distributed enterprises.

Management, Reporting and Support

Feature	Description
Cloud-based and on-premises management	Configuration and management of SonicWall appliances is available via the cloud through the SonicWall Network Security Manager (NSM) on-premisses or Cloud which is accessible via SonicWall Unified Management.
Powerful single device management	An intuitive web-based interface allows quick and convenient configuration, in addition to a comprehensive command-line interface and support for SNMPv2/3.
IPFIX/NetFlow application flow reporting	Exports application traffic analytics and usage data through IPFIX or NetFlow protocols for real-time and historical monitoring and reporting with tools such as SonicWall Analytics or other tools that support IPFIX and NetFlow with extensions.
Compliance-centered malware detection	Analyze suspicious files in your own environment without sending files or results to a third-party cloud.

Virtual Private Networking (VPN)

Feature	Description
	Simplifies and reduces complex distributed firewall deployment down to a trivial effort by automating the
Auto-provision VPN	initial site-to-site VPN gateway provisioning between SonicWall firewalls while security and connectivity
	occurs instantly and automatically.
IPSec VPN for site-to-site	High-performance IPSec VPN allows the firewall to act as a VPN concentrator for thousands of other large
connectivity	sites, branch offices or home offices.
SSL VPN or IPSec client	Utilizes clientless SSL VPN technology or an easy-to-manage IPSec client for easy access to email, files,
remote access	computers, intranet sites and applications from a variety of platforms.
Redundant VPN gateway	When using multiple WANs, a primary and secondary VPN can be configured to allow seamless, automatic
	failover and failback of
Route-based VPN	The ability to perform dynamic routing over VPN links ensures continuous uptime in the event of a
	temporary VPN tunnel failure, by seamlessly re-routing traffic between endpoints through alternate routes.

Zero Trust Network Access (ZTNA)

Feature	Description
Secure Private Access (SPA)	Leverage existing SonicWall firewalls and the integration with Cloud Secure Edge to enable zero-trust
Connector	network access to private apps hosted behind firewalls.

Content/context Awareness

Feature	Description
User activity tracking	User identification and activity are made available through seamless AD/LDAP/Citrix/Terminal Services
	SSO integration combined with extensive information obtained through DPI.
GeoIP country traffic identification	Identifies and controls network traffic going to or coming from specific countries to either protect
	against attacks from known or suspected origins of threat activity, or to investigate suspicious traffic
	originating from the network. Ability to create custom country and Botnet lists to override an incorrect
	country or Botnet tag associated with an IP address. Eliminates unwanted filtering of IP addresses due to
	misclassification.
Regular expression matching	Prevents data leakage by identifying and controlling content crossing the network through regular
and filtering	expression matching.



Breach Prevention Subscription Services

on endpoints.

Feature	Description
	The multi-engine sandbox platform, which includes virtualized sandboxing, full system emulation and
Multi-engine sandboxing	hypervisor level analysis technology, executes suspicious code and analyzes behavior, providing
	comprehensive visibility to malicious activity.
	SonicWall RTDMI is a patent-pending technology and process utilized by the SonicWall Capture Cloud to
Real-Time Deep Memory	identify and mitigate even the most insidious modern threats, including future Meltdown exploits. It even
Inspection (RTDMI™)	detects and blocks malware that does not exhibit any malicious behavior and hides its weaponry
	via encryption.
Block until verdict	To prevent potentially malicious files from entering the network, files sent to the cloud for analysis can be
Block until verdict	held at the gateway until a verdict is determined.
	Supports analysis of a broad range of file types, including executable programs (PE), DLL, PDFs, MS Office
Broad file type analysis	documents, archives, JAR and APK plus multiple operating systems including Windows, Android, Mac OS
	and multi-browser environments.
Rapid deployment of	When a file is identified as malicious, a signature is immediately deployed to firewalls with SonicWall
	Capture subscriptions and Gateway Anti-Virus and IPS signature databases and the URL, IP and domain
signatures	reputation databases.
Endpoint Security	
Feature	Description
Endpoint Protection	Capture Client applies behavior-based advanced threat protection, powered by Next Gen EDR SentinelOne.
	Capture ATP Integration for higher security effectiveness, faster response times and a lower total cost
	of ownership.
DDI COI Fafa a sanat	Deploy DPI SSL Certificates and enable enforcement of deep packet inspection of encrypted traffic (DPI-SSL)
DPI-SSL Enforcement	on endpoints

Encrypted Threat Prevention

Endpoint Enforcement

SAML Single Sign-On¹

SSO Login

Feature	Description
	Decrypts and inspects TLS/SSL encrypted traffic on the fly, without proxying, for malware, intrusions and
TLS/SSL decryption and	data leakage, and applies application, URL and content control policies in order to protect against threats
inspection	hidden inside of encrypted traffic. Included with security subscriptions for all models except SOHO. Sold as a
	separate license on SOHO.
SSH inspection	Deep packet inspection of SSH (DPI-SSH) decrypts and inspects data traversing over SSH tunnels to
	prevent attacks that leverage SSH.
TLS 1.3 Support	Support for TLS 1.3 to improve overall security on the firewall. This is implemented in Firewall Management, SSL
	VPN and DPI.

Enables the use of user information from endpoints for SSO policies.

Direct unprotected users to Capture Client Download page before accessing the internet when behind a

Simplifies authentication by allowing access to multiple apps using one set of credentials.1

Intrusion Prevention²

Feature	Description
Countermeasure-based protection	Tightly integrated intrusion prevention system (IPS) leverages signatures and other countermeasures to scan packet payloads for vulnerabilities and exploits, covering a broad spectrum of attacks and vulnerabilities.
Automatic signature updates	The SonicWall Threat Research Team continuously researches and deploys updates to an extensive list of IPS countermeasures that covers more than 50 attack categories. The new updates take immediate effect without any reboot or service interruption required.
Intra-zone IPS protection	Bolsters internal security by segmenting the network into multiple security zones with intrusion prevention, preventing threats from propagating across the zone boundaries.
Botnet command and control	Identifies and blocks command and control traffic originating from bots on the local network to IPs and
(CnC) detection and blocking	domains that are identified as propagating malware or are known CnC points.
Protocol abuse/anomaly	Identifies and blocks attacks that abuse protocols as they attempt to sneak past the IPS.
Zero-day protection	Protects the network against zero-day attacks with constant updates against the latest exploit methods and techniques that cover thousands of individual exploits.
Anti-evasion technology	Extensive stream normalization, decoding and other techniques ensure that threats do not enter the network undetected by utilizing evasion techniques in Layers 2-7.
Extensive list of IPS Signatures	Over 10,000 IPS Signatures associated with protection against exploits targeting software vulnerabilities.*

^{*}Some signatures associated with protection against exploits targeting software vulnerabilities are located under GAV and Anti-Spyware services.

¹SAML Single Sign-On is available in the upcoming SonicOS 8.1, releasing soon.



Threat Prevention ²	
Feature	Description
Gateway anti-malware	The RFDPI engine scans all inbound, outbound and intra-zone traffic for viruses, Trojans, key loggers and other malware in files of unlimited length and size across all ports and TCP streams.
Capture Cloud malware protection	A continuously updated database of tens of millions of threat signatures resides in the SonicWall cloud servers and is referenced to augment the capabilities of the onboard signature database, providing RFDPI with extensive coverage of threats.
Around-the-clock security updates	New threat updates are automatically pushed to firewalls in the field with active security services, and take effect immediately without reboots or interruptions.
Bi-directional raw TCP inspection	The RFDPI engine scans raw TCP streams on any port and bi-directionally to detect and prevent both inbound and outbound threats.
Extensive protocol support	Identifies common protocols such as HTTP/S, FTP, SMTP, SMBv1/v2 and others, which do not send data in raw TCP. Decodes payloads for malware inspection, even if they do not run on standard, well-known ports.

Application Intelligence and Control²

Feature	Description
	Controls applications, or individual application features that are identified by the RFDPI engine against a
Application control	continuously expanding database of over thousands of application signatures. This increases network
	security and enhances network productivity.
Custom application	Controls custom applications by creating signatures based on specific parameters or patterns unique to an
identification	application in its network communications. This helps gain further control over the network.
Application bandwidth	Application bandwidth management granularly allocates and regulates available bandwidth for critical
management	applications (or application categories), while inhibiting nonessential application traffic.
Granular control	Controls applications (or specific components of an application) based on schedules, user groups,
	exclusion lists and a range of actions with full SSO user identification through LDAP/AD/Terminal Services/
	Citrix integration.

Content Filtering²

Feature	Description
Reputation-based content	Restrict and control the web content an Internet user is able to access. Reputation-based content filtering
filtering	provides a reputation score that forecasts the security risk of a URL.
Inside/outside content filtering	Enforce acceptable use policies and block access to HTTP/HTTPS websites containing information or
	images that are objectionable or unproductive with Content Filtering Service and Content Filtering Client.
Enforced content filtering	Extends policy enforcement to block internet content for Windows, Mac OS, Android and Chrome devices
client	located outside the firewall perimeter.
Granular controls	Blocks content using any combination of categories. Filtering can be scheduled by time of day, such as
	during school or business hours, and applied to individual users or groups.
Web caching	URL ratings are cached locally on the SonicWall firewall so that the response time for subsequent access to
	frequently visited sites is only a fraction of a second.
Local CFS Responder	Local CFS Responder can be deployed as a virtual appliance in private clouds based on VMWare or
	Microsoft Hyper-V. This provides deployment flexibility option (Light weight VM) of CFS ratings database
	in various customer network use cases that require a dedicated on premise solution that speeds up CFS
	ratings request and response times, supports large number of allowed/blocked URL list (+100K), and adds
	up to 1000 SonicWall firewalls for CFS rating lookups.

Enforced Anti-virus and Anti-spyware²

Feature	Description
Multi-layered protection	Utilizes the firewall capabilities as the first layer of defense at the perimeter, coupled with endpoint protection
	to block viruses entering the network through laptops, thumb drives and other unprotected systems.
Automated enforcement option	Ensure every computer accessing the network has the appropriate antivirus software and/or
	DPI-SSL certificate installed and active, eliminating the costs commonly associated with desktop
	antivirus management.
Automated deployment and	Machine-by-machine deployment and installation of anti-virus and anti-spyware clients is automatic across
installation option	the network, minimizing administrative overhead.
Spyware protection	Powerful spyware protection scans and blocks the installation of a comprehensive array of spyware
	programs on desktops and laptops before they transmit confidential data, providing greater desktop
	security and performance.

Advanced Security

Feature	Description
Network visibility	It provides granular network visibility of network topology along with host info
Cloud management	Manage firewalls via cloud through Network Security Manager tile of SonicWall Unified Management

²Requires added subscription.

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Solution Brief - SonicPlatform











