

# SonicWALL VoIP Firewall Solution Brief

VOIP FIREWALL

## SonicWALL/Avaya Solution for Voice and Video over IP (VoIP)

### Overview

The expanding adoption of digital telephony and teleconferencing in today's business has launched VoIP technology into the IT mainstream. As customers' IP networks continue to grow by adding voice and video, along with high bandwidth data applications, the need for greater security, control and access becomes critical.

Like all IP traffic, VoIP can be prone to security threats from internal and external attacks and application vulnerabilities. VoIP is particularly susceptible to Denial of Service (DoS), digital eavesdropping, toll fraud and trunk hijacking. However, potential latency, jitter, packet loss and echo due to an underperforming firewall could significantly degrade communications.

Administrators must be able to prioritize allocated bandwidth to VoIP traffic to ensure adequate quality of service (QoS). Underperforming firewalls can potentially degrade VoIP communications with latency, jitter, packet loss and echo.

Virtual Private Networks (VPNs) have become a key component of converged networks that allow multi-site organizations to design one large private network as opposed to separate networks for each location. Increasingly, users require remote and mobile access to VoIP applications, and securing this access is critical.

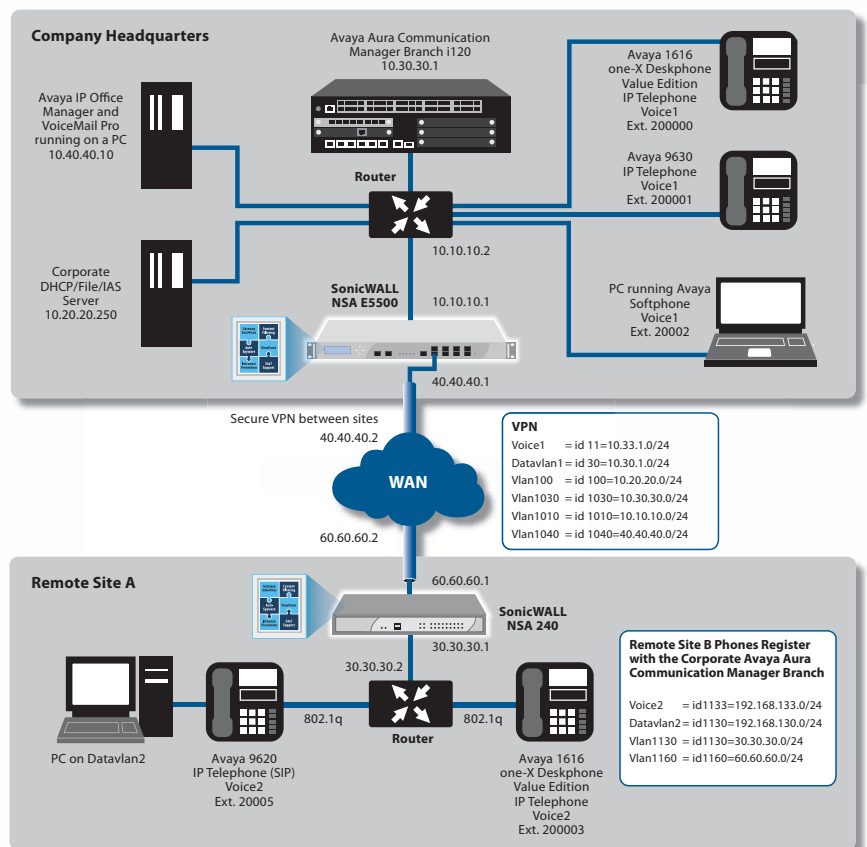
The ideal solution would include control over QoS prioritization, comprehensive security that introduces no latency, and secure access to VoIP applications over VPNs.

### Integrated Avaya and SonicWALL solution:

The SonicWALL® VoIP Firewall solution seamlessly integrates Avaya® VoIP telephony solutions with SonicWALL network security appliances and secure remote access solutions, offering the highest-performance multifunction solutions for VoIP security, control and access.

Combining SonicWALL's high-speed Reassembly- Free Deep Packet Inspection™ (RFDPI) (U.S. Patent 7,310,815D-A) with robust Unified Threat Management (UTM) security services, SonicWALL network security appliances scan and decontaminate all VoIP traffic between Avaya devices in real-time. SonicWALL's security- optimized multi-core processor architecture further enhances breakthrough performance, thereby maximizing throughput to enhance QoS. SonicWALL network security appliances provide built-in, security and bandwidth optimization, as well as easy support for VoIP-ready H.323 and SIP devices throughout the network. SonicWALL also facilitates VoIP over wireless LAN (VoIP over WLAN).

Administrators can easily configure all VoIP traffic between Avaya devices to traverse SonicWALL IPSec VPNs on the SonicWALL VoIP Firewall.



Comprehensive Gateway Security Suite includes gateway anti-virus, gateway anti-spyware, intrusion prevention, content filtering, ViewPoint reporting, and 24x7 support.



Clean VPN to encrypt and decontaminate traffic.

## Features and Benefits

The joint SonicWALL/Avaya VoIP solution delivers unparalleled levels of security for the VoIP infrastructure, as well as standards-based compatibility and interoperability with industry-leading VoIP gateway and communications devices. Features and benefits include:

**High-performance real-time VoIP security** applies advanced RFDPI and multi-core technologies.

**Comprehensive security** includes real-time gateway anti-virus and anti-spyware, intrusion prevention, and anti-spam services.

**Integrated QoS** allows prioritization of VoIP and data traffic on the network.

**Application firewall** provides additional application level control over bandwidth and prioritization

**Web Content Filtering Service (CFS)** transparently enforces productivity and protection policies and block inappropriate, illegal and dangerous Web content.

**VPN support for VoIP** is available through IPsec VPNs.

**Support VoIP protocol standards** such as **H.323 and SIP VoIP** for sending voice (audio), video and other media using IP on the public Internet.

**DoS and DDoS protection** guards against SYN Flood, Ping of Death, and LAND (IP) attacks designed to disable a network or service.

**Availability and call quality through bandwidth management** ensures that bandwidth remains available for time-sensitive VoIP traffic, and that VoIP devices have available bandwidth for calls (both ingress and egress).

**Full syntax validation of all VoIP signaling and media packets** ensures that malformed packets are not permitted to pass through the firewall and adversely affect their intended target.

**Support for dynamic set-up and tracking of media streams** tracks each VoIP call from the first signaling packet requesting a call set-up to the call end. Dynamic assignment of successfully negotiated media ports thwarts attackers who may be targeting specific ports.

**IP multicast support** addresses the inefficiencies of broadcast traffic by enabling multicast capable equipment to route one-to-many traffic, and by providing an "opt-in" model for hosts to receive the multicast traffic.

**Comprehensive monitoring and reporting** tools in SonicWALL's SonicOS firmware offer extensive monitoring and troubleshooting capabilities including dynamic live reporting of active VoIP calls, audit logs of all VoIP calls, logging of abnormal packets and detailed syslog reports. SonicWALL ViewPoint provides custom reports for VoIP signaling and media streams.

**Plug-and-protect support** automatically handles all VoIP device additions, changes, and removals, ensuring all VoIP devices have protection.

**Interoperability with leading VoIP vendors** enables organizations to choose between various vendor implementations of telephony and multimedia products across IP-based networks.

## SonicWALL VoIP Firewalls

SonicWALL TZ, Network Security Appliance (NSA) and E-Class NSA appliances are engineered to reduce risk, cost and complexity by combining automated Unified Threat Management (UTM) services for gateway anti-virus, anti-spyware, intrusion prevention, enforced desktop anti-virus, anti-spam, content filtering and Application Firewall, with high-speed Reassembly-free Deep Packet Inspection™ (RFDPI) (U.S. Patent 7,310,815D-A) and integrated VPN features to provide comprehensive protection and maximum performance.

## Avaya DevConnect Tested

Avaya Inc.'s Avaya IP Telephony Infrastructure using Avaya IP Office 4.2 in a Converged VoIP and Data Network

Avaya DevConnect Compliant Award for successful compliance testing with Avaya Inc.'s Avaya Aura™ Communication Manager 5.2 with Avaya Aura™ SIP Enablement Services 5.2(SES)

Avaya DevConnect Compliant Award for successful compliance testing with Avaya Inc.'s Avaya Aura™ Communication Manager Branch 2.0



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