



# Avaya SG5/5X Security Gateways

## Opening the Gateway to Secure IP Voice and Data for Remote Workers and Offices

Today's organizations are more mobile and dispersed than ever. They need flexible workforce solutions that provide complete, secure enterprise voice/data services to telecommuters and remote offices. The Avaya SG5 and SG5X Security Gateways help ensure the secure delivery of enterprise network and IP telephony services to any remote user with access to an inexpensive DSL or cable broadband connection.

### A Unique SOHO Solution

The SG5 is a compact security gateway that provides comprehensive security coverage for both voice and data communications over IP in Small Office/Home Office (SOHO) or remote telecommuting environments. Unlike typical SOHO products, the SG5 is designed for convergence, with VoIP-aware firewall/NAT (Network Address Translation) capability; bandwidth management for real-time voice support; IPSec VPN; and DHCP server support for IP phones — all in one device that's easy to install and support.

This enables remote users to have a true "virtual office" — with an IP phone and a connected PC — and access to all the benefits of Avaya Voice over IP (VoIP) applications. In turn, enterprises can take advantage of VoIP technology to deploy mobile workforce solutions combining voice and data access with integrated security

The SG5X security gateway offers the same functionality as the SG5, plus an integrated 8-port 10/100 switch. This allows the direct connectivity of multiple network devices, eliminating the need for a separate switch device.

### Raising Productivity While Lowering Costs

The Avaya SG5/5X Security Gateways deliver more value to organizations that support a large number of telecommuters. With access to the full suite of Avaya Communication Manager or IP Office call features, telecommuters can now work more productively — while being easily accessible to anyone in the enterprise. In addition to accessing data in the corporate network, remote users can place and receive calls, participate in conference calls, and use voice mail and Avaya Unified Messaging applications — all over a DSL/Cable broadband connection.



Avaya SG5X Security Gateway



At the same time, the SG5/5X deliver a strong return on investment. By combining voice and data access over IP, enterprises with distributed workforces can now extend full voice and data communications to all users while reducing remote access and telecommunications costs. Plus, to further reduce the Total Cost of Ownership (TCO), the SG5/5X allow for easy remote installation and centralized configuration and management. This simplifies deployment at remote locations and reduces support costs.

### Easy to Use, Easy to Manage

The SG5/5X provide an intuitive Web interface with quick setup tools that enable the typical user to install the product without extensive network knowledge. And support for remote diagnosis over a secure connection allows a central administrator to remotely trouble-shoot the device (if required).

Once a SG5/5X Security Gateway is installed, VPN and security policy information can be delivered transparently to the device from a central server running Avaya VPNmanager® Software (Avaya

award-winning security policy-based management system). For smaller deployments that do not require VPNmanager Software, the SG5/5X can be managed directly using a secure, intuitive web interface.

After being configured, the SG5/5X connects the remote office to the corporate network via an IPSec VPN tunnel over the Internet — a secure connection that provides data integrity and helps ensure communications privacy.

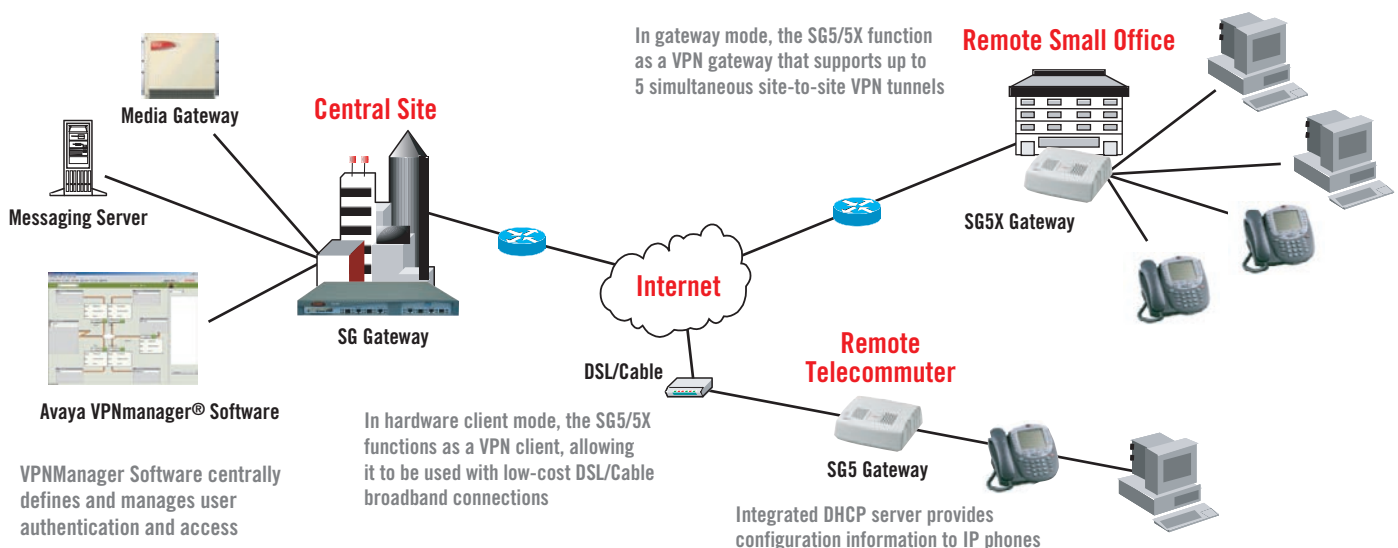
### Designed for Convergence and Flexibility

Whether for a small enterprise with distributed locations, or for larger organizations deploying converged telecommuter solutions, the Avaya SG5/5X Security Gateways provide the features and capabilities to meet a variety of needs.

#### Gateway/Hardware Client Modes

The SG5/5X can operate in two modes:

- As a VPN gateway
- As a hardware VPN client



As a VPN gateway, the SG5/5X provide small enterprises with an easy-to-use solution for connecting up to five separate locations with secure VPN tunnels. An optional remote access license turns the SG5/5X into economical remote-access VPN gateways that allow a small enterprise to deploy remote access services for up to five users running Avaya VPNremote Client software.

As a hardware VPN client, the SG5/5X simplify remote access deployments for larger enterprises by eliminating the support issues related to software VPN clients. For enhanced security, user authentication is required before a VPN connection is established.

#### **SMLI Firewall with H.323 Application Proxy**

An integrated H.323 application proxy allows enterprises to deploy VoIP through the integrated SMLI (Stateful Multilayer Inspection) firewall without compromising security. It also allows VoIP services to traverse NAT network environments, which are used in most SOHO environments to connect to the Internet.

#### **Bandwidth Manager**

An integrated Class-Based Queuing (CBQ) bandwidth manager supports four separate classes.

Administrators can assign network applications to these classes and allocate specific bandwidth requirements for each class. This helps ensure that IP Telephony and business-critical traffic have priority access to the DSL/Cable modem connection.

#### **DHCP Relay and Server Support**

The SG5/5X can be configured for DHCP relay, or alternatively as a local DHCP server. As a DHCP server, the SG5/5X simplify IP phone deployments by pushing configuration parameters to IP phones. DHCP relay and can function as a local DHCP server as a fallback option. As a DHCP server, the SG5/5X can be configured to support regular data devices — and to provide Option 176 parameters (IP address, CLAN and TFTP addresses, etc.) to Avaya IP phones.

#### **Learn More**

For additional information on IP telephony and our VPN and security solutions, please contact your Avaya Client Executive, Authorized BusinessPartner, or visit us at [avaya.com/learnmore/ip](http://avaya.com/learnmore/ip). For more information about Avaya and our other award-winning solutions, visit [avaya.com](http://avaya.com).



Avaya SG5 Security Gateway

## **Key Features**

- Up to 2 Mbps 3DES IPSec throughput performance
- VPN gateway and hardware VPN client modes
- Supports DHCP or PPPoE DSL/Cable broadband connections on public interface
- SMLI firewall with integrated H.323 application proxy
- CBQ bandwidth manager
- DHCP server, DHCP relay
- DHCP extensions for IP Telephony support
- NAT and PNAT services
- Automatic policy download from central site Avaya Security Gateway
- SSL-secured remote diagnostic and troubleshooting
- IKE key management (RFC 2409)
- IPSec compliance (RFC 1825-1829, 1851, 2401-2410, 2412, 2451)
- MD5 and SHA-1 data authentication
- Web-based local management interface
- Optional license for remote access VPN support
- Integrated 8-port switch (SG5X only)

## Specifications

### Interfaces:

- SG5: Two 10/100 Ethernet ports
- SG5X: Integrated 8 port 10/100 Ethernet switch

### Dimensions:

- SG5: 5"d x 6"w x 1.5"h
- SG5X: 6.5"d x 7.75"w x 2.5"h

### Power:

- < .2 Amps @ 110VAC
- < .4 Amps @ 240VAC

### Environmental:

- Temperature: 0-50° C
- Humidity: 5-90% (non-condensing)

### Agency Approvals:

- Safety: CSA/US, CSA/C
- Emissions: FCC Class B, EN, BSMI, VCCI

## Ordering Information

Product	Trusted Interface IP Address Support	Description	Material Code
Avaya SG5 Security Gateway	5 nodes	Firewall / VPN Gateway with 2 10/100, DHCP, PPPoE and 3DES	700213838
Avaya SG5X Security Gateway	5 nodes	Firewall / VPN Gateway with 8 10/100, DHCP, PPPoE, and 3DES	700237522
Avaya SG5 Pro Security Gateway	Unlimited	Firewall / VPN Gateway with 2 10/100, DHCP, PPPoE and 3DES	700213846
Avaya SG5X Pro Security Gateway	Unlimited	Firewall / VPN Gateway with 8 10/100, DHCP, PPPoE, and 3DES	700237530
Pro Software Upgrade Avaya SG5 and SG5X	Unlimited	Upgrade from standard SG5/5X version to Pro version to include unlimited protected nodes	700237951
VPNremote® 5 User License	N/A	Add remote access support for 5 VPNremote® clients	700258049

### About Avaya

Avaya enables businesses to achieve superior results by designing, building and managing their communications networks. Over one million businesses worldwide, including more than 90 percent of the FORTUNE 500®, rely on Avaya solutions and services to enhance value, improve productivity and gain competitive advantage.

Focused on enterprises large to small, Avaya is a world leader in secure and reliable IP telephony systems, communications software applications and full life-cycle services. Driving the convergence of voice and data communications with business applications – and distinguished by comprehensive worldwide services – Avaya helps customers leverage existing and new networks to unlock value and enhance business performance.



IP Telephony

Contact Centers

Unified Communication

Services

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