



Challenge

IP Communications like Voice over IP, Collaboration and Instant Messaging are changing the way we do business. Unified Messaging applications are allowing organizations to bring operational efficiency and customer care to new levels. Deploying these services over existing networks has left businesses and Service Providers facing a number of challenges including Network Address Translation (NAT) Traversal, service quality assurance and reliability issues. Users need the same access to their applications whether they are in the office or on the road, making the need for secure IP communications more important than ever. Organizations need a solution that can enable and protect their mission critical communication applications without having to make a huge capital investment – a flexible and cost effective solution that can easily scale to meet growing needs.

Solution

BorderWare SIPassure is the industry's first SIP Security Gateway - a product that combines the best features of a Firewall, an Application Layer Gateway (ALG) and a Session Border Controller (SBC). SIPassure enables and protects IP converged communications by allowing SIP-driven applications such as VoIP, video and IM to traverse networks without exposing the enterprise's internal infrastructure. BorderWare SIPassure offers service providers, carriers and enterprises secure NAT/PAT traversal, and market leading application security for SIP-based applications including voice, video and presence. SIPassure's highly flexible architecture allows it to be embedded within existing applications such as IP/PBX, Softswitches, and other applications built with SIP application servers. SIPassure's ability to run on standard Operating Systems leverages a wide range of platforms offering ultra high performance at a lower cost than a proprietary SBC. SIPassure sets a new standard for price performance for both the enterprise and carrier markets.

BorderWare & Avaya Secure IP Communications Solution

BorderWare SIPassure & Avaya Communication Manager 4.0

BorderWare SIPassure interoperates with Avaya Communication Manager 4.0 and SIP Enablement Services to deliver the worlds most secure, resilient and feature rich IP communications solution.

Products

BorderWare SIPassure™

BorderWare SIPassure is a SIP Security Gateway that combines Session Border Controller functions with new innovative technology to take security for VoIP applications to the next level. SIPassure is designed to secure all Session Initiation Protocol (SIP) based applications including VoIP services, video conferencing and other messaging applications.

- **Near and Far-End NAT Traversal** – provides support for remote or mobile users behind NAT devices
- **QoS Tagging** – ensures real-time communications are prioritized
- **SIP & RTP Proxy Separation** – increase scalability with load balancing to meet any organization's needs
- **Encryption support** – for signaling (SIP over TLS) and media (SRTP) protects your users privacy and confidentiality
- **Application Layer security** – protects systems from abuse and service disruption from internal and external malicious attacks, interference attacks and other related threats such as Call Flooding, Call Hijacking and Toll Fraud
- **Call Pattern Analysis** – detects sources of SPIT, call floods and other types of unwanted calls allowing network administrators to significantly reduce the volume of unwanted calls received by both local and remote users
- **BorderWare Security Network (BSN) integration** – global threat prevention providing real-time information for proactive real-time defenses against rapidly evolving threats

Avaya Communications Manager 4.0

Avaya Communication Manager organizes and routes voice, data, image and video transmissions. It can connect to private and public telephone networks, ethernet LANs, ATM networks, and the Internet.

Communication Manager seeks to solve business challenges by powering voice communications and integrating with value-added applications. Communication Manager is an open, scalable, highly reliable and secure telephony application. Communication Manager provides user and system management functionality, intelligent call routing, application integration and extensibility, and enterprise communications networking.

BorderWare SIPassure™

BorderWare SIPassure is a SIP Security Gateway that enables the secure roll out of SIP based communication applications including VoIP, Video Conferencing, Presence, and Collaboration. It is available as an OEM software solution to enhance existing products including IP PBX's, Application Servers and other SIP or VoIP infrastructure, and as an appliance for deployment in SIP enabled Enterprise or Service Provider networks.

Platform

SIPassure was designed to run on standard Operating Systems and hardware platforms. BorderWare offers SIPassure on a range of Sun hardware including Sun Fire x2100, Sun Fire x4200, and NEBS compliant Netra 4200 platforms providing cost effective and scalable solutions for Enterprise and Service Provider deployments.

Protocols and Interfaces

Interfaces: 2 to 10 10/100/1000BT Ethernet

Signaling: SIP, SIPS

Media: RTP, SRTP

Management: HTTPS, SNMP, Syslog

Authentication: Local Database, RADIUS

Management Features include

- Secure Web based management interface
- Centralized cluster management
- RADIUS Authentication
- SNMP Monitoring
- Detailed Reporting
- Call Details
- Syslog Support

Availability Features include

- Separate Signaling and Media Proxies
- Clustering with automatic failover

Enablement Features include

- Near and Far-End NAT Traversal
- Transparent Proxy
- SIP Proxy
- RTP Proxy
- QoS Support
- Protocol Diagnostics
- Integrated Call Flow capture and analysis tools

Security Features include

- Stateful Inspection Firewall
- Packet Filtering Firewall
- Deep Packet Inspection
- Authentication and Authorization
- Encryption support for Signaling and Media
- Call Pattern Analysis
- BorderWare Security Network integration for Real-time threat prevention
- Blacklisting and Whitelisting

Attack Prevention Features include

- DoS and DDoS
- Buffer Overflows
- Protocol Fuzzing
- Service Theft
- Eavesdropping
- SPAM over Internet Telephony (SPIT)
- Registrar Hijacking
- Session Hijacking
- Prank Attack
- Bye Attack
- Relay Attack
- Remote Call Attack
- Transfer Attack
- Phishing
- Directory Harvesting

Highlights

BorderWare	Avaya
BorderWare Technologies makes Internet communications safe. The company's messaging security, privacy and compliance solutions enable customers to mitigate the risks and threats associated with Internet communications. Founded in 1994, BorderWare has developed partnerships and affiliations with some of the industry's most prominent companies including Avaya, Mitel, Ubiquity, Marconi/Ericsson, Natural Convergence, Sun Microsystems, Research in Motion (RIM), Kaspersky Labs, McAfee, RSA Security, and Symantec. Thousands of customers in over 50 countries have selected BorderWare solutions for their superior security, scalability, business continuity and lower total cost-of-ownership. For more information visit www.borderware.com	Avaya Inc. designs, builds and manages communications networks for more than 1 million businesses worldwide, including over 90 percent of the FORTUNE 500®. Focused on businesses large to small, Avaya is a world leader in secure and reliable Internet protocol (IP) telephony systems and communications software applications and 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 achieve superior business results. For more information visit the Avaya website: www.avaya.com . For more information on the Avaya DeveloperConnection Program, visit www.devconnectprogram.com .



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