

Avaya and Check Point

Deploying VoIP without sacrificing security

The benefits of Voice over IP (VoIP) come with security risks. Placing voice traffic on the data network exposes it to the same attacks – worms, buffer overflows, and more – that plague the existing network infrastructure. And the complexity and diversity of VoIP protocols make it nearly impossible for traditional security solutions to cope with voice on the data network. A perimeter security solution that is not only VoIP aware, but can also make intelligent security decisions to protect the VoIP network from attack is essential.

Check Point Software Technologies, Inc., an Innovator-level member in the Avaya DeveloperConnection program, meets this need with the Check Point VPN-1 Pro product family. Check Point VPN-1 Pro delivers the advanced technologies needed for organizations to deploy VoIP without sacrificing security. Check Point VPN-1 Pro uses SmartDefense to provide true awareness of application-layer threats and integrated intrusion prevention for VoIP deployments. SmartDefense, using the Application Intelligence technology, provides VPN-1 Pro a deep understanding of how H.323, SIP or other VoIP protocols operate. If traffic deviates from the norm – such as happens when an attacker tries to exploit a vulnerability – VPN-1 Pro detects the shift and preemptively prevents the attack from taking place.

The solution is designed to work with Avaya Communication Manager. Avaya Communication Manager integrates telephony call processing, call control, messaging, contact center, and a widely accepted application programming interface into a highly scalable architecture designed to support both circuit-based and IP-based telephony within a distributed enterprise communications network.

Features

With intelligent security based on Stateful Inspection and Application Intelligence, VPN-1 Pro can solve the four most common problems associated with integrating VoIP into their perimeter security strategy:

- **Enabling Complex, Diverse VoIP Protocols** – companies can choose from among a host of VoIP protocols – all of which function differently and interact with security in

ways that traditional firewalls cannot handle. VPN-1 Pro delivers the most intelligent security for the widest variety of VoIP protocols available in a perimeter security solution. The intelligent security of VPN-1 delivers two benefits that other perimeter solutions do not. First, it enables complete inspection of both the network layer and the payload – where additional VoIP data is placed. Second, because VPN-1 was developed to be aware of how VoIP sessions should work, it can detect and stop malicious VoIP activity without administrator interaction.

- **Protecting the Converged Network** – Placing voice traffic on the data network exposes it to traditional data attacks. VPN-1 Pro goes beyond simple support for VoIP protocols to an awareness of how VoIP works, providing preemptive protection for both the VoIP network and the underlying infrastructure.
- **Delivering High Voice Quality** – A major concern for VoIP deployments is maintaining the high level of voice quality people expect from traditional phone services. VPN-1 Pro integrates Quality of Service mechanisms to help ensure that the quality of voice traffic is not reduced while still maintaining a high level of security.
- **Solving the NAT Problem** – Network address translation (NAT) is a common security function that is often incompatible with VoIP deployment. VPN-1 Pro provides the greatest range of deployment options for VoIP in a NAT environment without the use of third-party products.

Benefits

Benefits of the solution include:

- Simplified IPsec/SSL virtual private network (VPN) deployment
- Most intelligent application/network layer protection
- Lowered remote access/site to site costs
- Increased security reliability and availability
- Simplified centralized management

System Requirements

System requirements include:

- Check Point VPN-1 R55 and higher
- Avaya Communication Manager Release 3.0

ABOUT CHECK POINT

Founded in 1993, Check Point Software Technologies, Inc. is a leader in securing the Internet. It is a market leader in the worldwide enterprise firewall, personal firewall and VPN markets. Through its NGX platform, the company delivers a unified security architecture for a broad range of perimeter, internal, Web and endpoint security solutions that protect business communications and resources for corporate networks and applications, remote employees, branch offices and partner extranets.

In addition to meeting the needs of the traditional perimeter security requirements, Check Point also has solutions for the two other aspects of the network, Internal and Web protections. For internal security, Check Point offers an Intrusion Prevention Solution called InterSpect and a managed endpoint security solution called Integrity. For Web security, Check Point offers a Web application gateway called Connectra.

For more information, visit www.checkpoint.com.

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.

For more information about Avaya, visit www.avaya.com.

ABOUT DEVCONNECT

The Developer*Connection* Program (DevConnect) is a comprehensive set of innovative sales, support, marketing and services programs through which Avaya works with members to develop and promote their products and solutions that interoperate with Avaya solutions.

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