



The Power of We™

# Avaya Session Border Controller for Enterprise

A single-boxed solution addressing security issues in SIP networks

To benefit from the latest communication and collaboration solutions, businesses are increasingly turning to SIP-based networks.

Whether it's to lower costs using IP telephony or to take advantage of the latest multimedia messaging, conferencing and unified communications (UC) applications, SIP is emerging as the industry standard.

## Advantages of SIP

Carriers increasingly offer SIP trunks (Session Initiation Protocol) as they are designed for high-fidelity voice, high-definition video and other real-time collaboration applications. SIP trunks support more telephone extensions more cost effectively and reduce the cost of local, toll-free, domestic and international long-distance communications.

With the support of a SIP network, a growing business can more easily and cost effectively roll out the latest UC applications to employees regardless of where they are working: in the office, at home or on the road. The productivity

that results from these collaborative, real-time applications can be a major competitive advantage.

## SIP Trunk Security

However, SIP trunks also present a security challenge: there is vulnerability at the point where the SIP trunk connects to the public network which can leave a business exposed to hacker attacks including spoofing, call hijacking, eavesdropping and toll fraud. In addition to potential damage to business operations, privacy and security mandates such as those for credit and health information (e.g., PCI and HIPAA) require that these vulnerabilities be addressed, imposing significant financial and legal penalties for non-compliance.

## A Solution for Growing Businesses

The Avaya Session Border Controller for Enterprise (Avaya SBCE) addresses the security vulnerabilities in SIP networks in a cost-effective, easily-implemented, single-box solution.

"Customer service is at the heart of what we do, and as a leader in outsourced contact center services, our clients count on us to ensure superior functions and secure service. The Avaya SBCE delivers this, and does so with an eye towards cost-savings. We can reduce our hardware expenses, simplify implementations, and use fewer resources, saving us time and money. Avaya SBCE is critical in helping protect our network, while delivering the cost-saving benefits of SIP trunking."

*-Richard Blake, Manager,  
IT Telecom,  
Teleperformance*

## Security for SIP-based networks

- A clear line of defense where the SIP trunk meets the public network
- Supporting communications applications that drive competitive advantage

Protection against:

- Denial of Service (DoS) attacks
- Spoofing
- Call Hijacking
- Toll-fraud blocking
- Eavesdropping and theft of information

Fine-grained policy enforcement

Easily operated from an intuitive graphical user interface (GUI), the Avaya SBCE establishes a precise demarcation where the SIP trunks meet the enterprise network, presenting a clear line of defense. It delivers enterprise-class security that includes protection from Denial of Service (DoS) and application-layer threats as well as toll-fraud. Fine-grained policy enforcement helps ensure ongoing compliance.

With Avaya SBCE in place, growing businesses can adopt the collaborative and unified communications applications that drive competitive advantage.

## A single-box solution addressing security issues in SIP networks

Avaya Session Border Controller for Enterprise provides a complete application-layer security architecture in one device: SIP Firewall, Session Border Controller, Intrusion Detection System and Intrusion Prevention System (IDS/IPS), Access Controller, Authentication, Unified Communications Proxy and Policy Enforcement for all real-time unified communication applications.



## Secure and Support BYOD

Consumer devices are pouring into the enterprise. Businesses can leverage BYOD—Bring Your Own Device—as a way to reduce costs, increase productivity, and enhance communication and collaboration. The challenge is how to say yes to BYOD while maintaining control of the network.

Every enterprise is impacted by and talking about BYOD, but what can get lost in the conversation is the fact that BYOD is more than just device management. Avaya supports BYOD with a combination of security, authentication, networking, and policies. The comprehensive Avaya solution includes device

authentication, access control for wired and wireless devices, secure remote access, and support via a range of services.

The Avaya Session Border Controller for Enterprise is designed to securely enable many deployments, including:

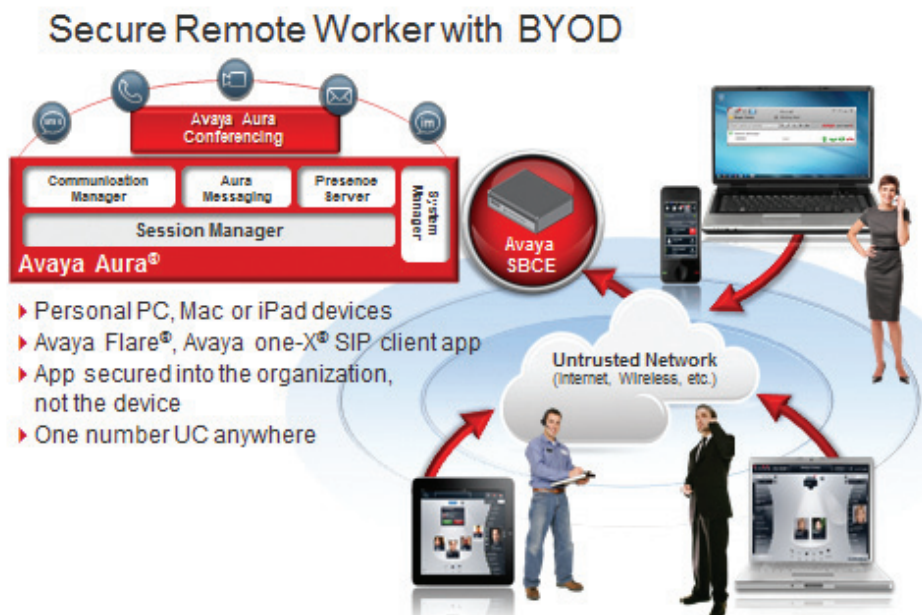
- Enabling remote workers to connect without VPN, offering true support of Bring Your Own Device (BYOD) without the administrative overhead of a Virtual Private Network (VPN) solution
- Secure UC applications entering the enterprise core
- Secure Border Access for incumbent and competitive local exchange

## Avaya Session Border Controller for Enterprise with IP Office

Avaya IP Office is the solution many growing businesses turn to for comprehensive, easily implemented unified communications.

With more than 300,000 systems installed worldwide, IP Office is an industry standard-bearer, delivering the communications and productivity tools today's employees need to perform at their best.

When Avaya IP Office is implemented in conjunction with SIP trunks, the Avaya Session Border Controller for Enterprise works hand in hand to help protect against security threats.





## About Avaya

Avaya is a global provider of business collaboration and communications solutions, providing unified communications, contact centers, networking and related services to companies of all sizes around the world. For more information please visit [www.avaya.com](http://www.avaya.com).

Specification	Avaya SBCE - Dell Platform	Avaya SBCE for IP Office - Portwell	Avaya SBCE - Dell EMS
<b>Sessions</b>	Up to 2,000	Up to 500 sessions	
<b>Part Number</b>	271021	271023	271022
<b>Platform Type</b>	PE R210 II XL (OEM) (2HD)	CAD-0208-3402-900	PE R210 II XL (OEM) (2HD)
<b>Main Processor</b>	Xeon E3-1220 - 3.1GHz (Quad core - 80W)	ATOM D510 - 1.66GHz	Pentium G850 2.9 GHz (Dual core)
<b>Memory</b>	4GB (2 X 2GB)	2GB	2GB (2 X 1GB )
<b>RAID</b>	No	No	RAID 1
<b>Hard Drives</b>	250/500GB (SATA)	320GB (SATA)	2 X 500 GB (SAS/ SATA)
<b>Compact Flash</b>			
<b>PCI Cards</b>	1 X NICPCIe-4		1 X PERC H200 RAID Controller
<b>TPM</b>	No	No	No
<b>LED Display</b>	Yes	No	Yes
<b>Interfaces (Ports)</b>			
<b>Data</b>	6 X 1GbE	4 X 1GbE	2 X 1GbE
<b>USB</b>	2	2	2
<b>Console</b>	1 (DB 9 - Female)	1 (RJ-45)	1 (DB 9 - Female)
<b>Replaceable Fan</b>	No	No	No
<b>Replaceable Hard Drive</b>	No	No	No
<b>Redundant PSU</b>	No	No	No
<b>Port Bypass</b>	No	No	No
<b>Form Factor</b>	1U	1U	1U
<b>Bezel</b>	Dell - Standard R210		Dell - Standard R210
<b>Dimensions</b>			
<b>Height</b>	1.7 in	1.7 in	1.7 in
<b>Width</b>	17.1 in	11.75 in	17.1 in
<b>Depth</b>	15.5 in	5.75 in	15.5 in
<b>Boxed</b>			
<b>Height</b>	10 in	7.5 in	10 in
<b>Width</b>	24 in	12 in	24 in
<b>Depth</b>	32 in	15 in	32 in
<b>Weight</b>			
<b>Unit</b>	15.5 lbs.	3 lbs.	16.32 lbs.
<b>Boxed</b>	30 lbs.	6 lbs.	31 lbs.
<b>Power</b>			
<b>Input</b>	100/240V AC	100/240V AC	110/240V AC
<b>Nominal Current (110V)</b>	1.2 A	0.2 A	1.2
<b>Maximum Current (110V)</b>	2 A	0.5 A	2 A
<b>AC Power (Max)</b>	250 Watts	40 Watt	250 Watts
<b>Environmental</b>			
<b>Nominal Operating Temp</b>	20°C	20°C	20°C
<b>Operating Temp Range</b>	10°C ~ 35°C	5°C ~ 35°C	10°C ~ 35°C
<b>Relative Humidity</b>	10% ~ 90%	20°C ~ 90°C	10% ~ 90%
<b>Storage Temp</b>	-40°C ~ 65°C	0°C ~ 75°C	-40°C ~ 65°C

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