

HP Services zl Module for Avaya Aura Session Border Controller powered by Acme Packet

Converge, secure, and simplify business communications with HP networking solutions

Solution brief

Unified Communications and Collaboration—Strong benefits, lingering challenges

Unified Communications and Collaboration (UC&C) applications give enterprises a competitive edge. They not only help lower costs, but also enhance information sharing and customer services. Yet as organizations take advantage of technologies such as voice over IP (VoIP) to gain these benefits, they often encounter security, deployment, and management issues.

In support of remote activities, companies may initiate use of softphones and IP desk phones outside their enterprise network, but this can create security issues and VPN deployment challenges. Similarly, if companies want to improve operational efficiencies and reduce costs by using Session Initiation Protocol (SIP) trunking to connect their IP PBXs to a service provider across distributed, regional locations, they may need to first update their SIP trunking infrastructure—an activity requiring resource and budget investments.

The price points of SIP trunks have dropped worldwide, but security and deployment issues linger. Protecting the network from intrusions, while maintaining a trusted border with the service provider network can be a significant challenge. Traditional firewall protection may not provide adequate security and management across a converged communications infrastructure of business-grade voice, video, and interactive multimedia services.

The HP Services zl Module for Avaya Aura™ Session Border Controller (SBC) powered by Acme Packet is a solution that addresses all these issues. Particularly suited for midsize and large enterprises, branch offices, and small contact centers, the solution is designed to reduce complexity, enhance security in SIP trunk deployments, improve productivity, and enable robust communications management—all without putting undue stress on an organization's budget.

HP helps secure, control, and manage SIP environments

The Services zl Module for Avaya Aura SBC provides an integrated, tested, and certified solution that combines Avaya Aura and SBC software on a module designed for HP E5400 zl and E8200 zl switch series products. By consolidating equipment, centralizing services, and simplifying network management and maintenance, it creates savings that can offset an enterprise's investment in an innovative SIP trunking infrastructure.

Enhanced security and service continuity: The solution addresses the unique challenges involved in supporting real-time communications for office and remote employees, customers, vendors, and partners. Purpose-built for the requirements of multimedia sessions, it prevents malicious attacks and delivers uninterrupted service. Many enterprise firewalls cannot handle VoIP signaling, and can actually block inbound VoIP calls. The HP Avaya Aura SBC solution, however, allows legitimate traffic to enter the enterprise boundary and reach its intended destination.

Interoperability for leveraging older technology and infrastructure: The HP Avaya Aura SBC solution also delivers the protocol interworking features necessary for seamless interoperability when connecting real-time interactive communications via SIP to service providers and remote workers. Though SIP is becoming the de-facto standard for real-time communication applications, a variety of protocols continue to be used by IP PBXs. The rich set of features and functions of the HP Avaya Aura SBC solution helps resolve such interworking issues, enabling older equipment that may still use H.323, Media Gateway Control Protocol (MGCP), or Signaling Connection Control Part (SCCP) protocols to work with SIP solutions. To further promote consistent, reliable SIP communications, the solution also manages potential incompatibilities among various protocol implementations—carrier-based softswitches frequently implement SIP over User Datagram Protocol (UDP) for



scalability, while enterprise IP PBXs tend to implement SIP almost exclusively over TCP—to further promote consistent, reliable SIP communications.

Reliable, high-quality communications: Unlike data communications that can tolerate large latencies, communications such as voice, IM, and video must be handled in “real time,” with decreased latency and jitter. The clear demarcation point at the enterprise perimeter provided by the HP Avaya Aura SBC enables the diagnostics, fault isolation, regulatory compliance, and call quality monitoring needed for uninterrupted SIP trunking business services with a higher level of security, and in turn, for business-quality multimedia communications. Network address translation (NAT) and firewall traversal capabilities that enable the mapping of internal addresses to external or public addresses further facilitate traffic from outside the enterprise efficiently reaching its internal destination.

Efficient deployment and use: The integration of Avaya software with HP switching solutions reduces equipment needs, enabling businesses to save space and power by avoiding deployment of additional hardware, Ethernet connections, and power cords, while enhancing network control and simplifying management.

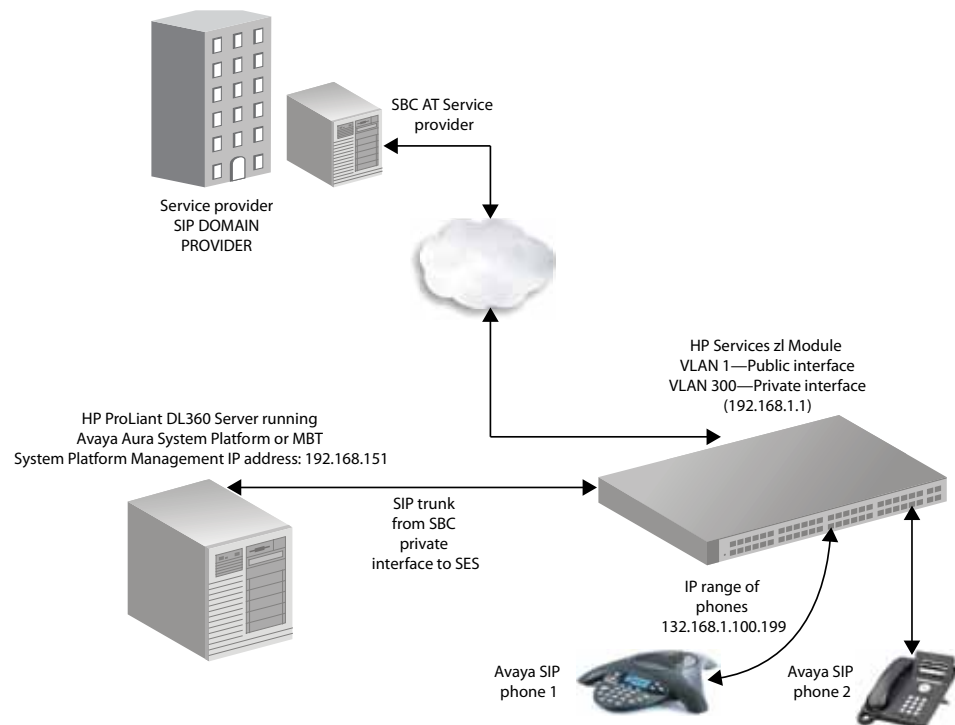
Protection for investment as well as business assets

Engineered to meet the highest quality standards, HP products and solutions are based on industry standards that can be leveraged as an enterprise adopts next-generation UC&C capabilities. As part of the portfolio of networking solutions from HP, the HP Services zI Module for Avaya Aura Session Border Controller not only provides the investment protection of standards-based interoperability, but also the proven performance and industry-leading warranty of HP networking solutions.

Key benefits

- **Simplified deployment and management:** The solution is delivered on a module that installs in a chassis slot of an HP E5400 zI or E8200 zI switch.
- **Cost-effective value:** Modular design saves space and reduces maintenance by helping enterprises avoid the need for additional hardware and decrease points of failure.
- **Enhanced security:** IP border control provides proven VoIP and UC&C security in SIP trunking environments.
- **Integrated services:** Avaya Aura Session Manager and Communication Manager interoperate seamlessly with HP switching solutions and new or existing Avaya Aura environments.

Figure 1: HP Services zI Module decreases the risk and complexity of SIP trunking deployments by providing an integrated solution, reduced footprint, and HP award-winning support.



- **Reliable business continuity:** Proven quality and high-availability architecture helps speed disaster recovery and promote survivability, and lifetime warranty from HP provides industry-leading coverage.
- **Regulatory compliance support:** The solution enables emergency calling, privacy controls, and recording.

Key features

- SIP/H.323 for establishing IP-IP network borders
- Management control for security, SLA assurance, regulatory compliance, revenue and cost protection, and greater services reach
- VoIP security for SIP trunking with Internet Telephony Service Providers (ITSP), hosted service providers, and federated businesses
- Denial of Service/Distributed Denial of Service self-protection
- IP PBX/SIP proxy DoS prevention
- Access control—dynamic and static
- Topology hiding
- Encryption—signaling and media
- Malware and SPIT mitigation
- Remote NAT traversal
- Acme Packets—proven Net-SAFE security framework
- Interworking and protocol normalization; signaling, transport, and encryption protocols
- SLA assurance
- Call admission control—signaling resource and bandwidth
- Signaling resource load balancing
- Quality of service/adaptive source routing (QoS/ASR) protocol routing

Solution components

Software

Avaya Solution Hosting Platform
Avaya Aura Session Border Controller

Hardware

HP Services z1 Module for use in HP E5412 z1, E5406 z1, or E8212 z1 switch chassis

- 2-slot high card
- 2.6 GHz Core 2 Duo CPU
- 4 GbE DRAM
- Support for up to 2 SATA HDD
- 4 GbE flash

Avaya and HP and AllianceONE solutions

Today's enterprises face the ongoing challenge of growing their business while reducing costs and rethinking how employees communicate, collaborate, and innovate. The HP AllianceONE program creates market-leading, pre-tested, and certified solutions that integrate with existing networking infrastructures and are supported by HP services and channel partners. AllianceONE solutions are designed to enable the use of new business applications without increasing networking complexity and its related resource and budget requirements. Avaya and HP, working together as partners in the AllianceONE program, are committed to helping organizations accelerate their business growth by increasing efficiency, lowering costs, and reducing risks.

Broad portfolio of services

HP Contractual Services and HP Care Pack Services are available for the Avaya Aura Session Border Controller. With mission-critical support levels, cost-effective upgrades, and warranty extensions, they help organizations efficiently deploy solutions. HP Network Lifecycle Services help define, implement, and maintain an organization's UC&C solutions with discovery workshops, consultative assessments, architectural planning/design, solution implementation, education and training, and global hardware/software support. For additional information on HP services, visit: www.hp.com/services/network.

For more information about how HP and Avaya UC&C solutions can increase productivity, reduce complexity, and enhance security, visit: www.hp.com/networking/allianceone-avaya



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