

# APPLICATION DELIVERY IN ENTERPRISE CLOUD COMPUTING ENVIRONMENTS

## A10 Networks and Avaya Offer A Joint Industry-Leading Application Networking Solution for High-Performance Software Defined Networking (SDN)

### Challenge:

High-volume traffic and the rapid growth in applications are stretching today's networks to the limit and beyond. This has created increasing demand for the integration of high-performance application delivery and network virtualization into a secure, scalable and cost-effective end-to-end solution.

### Solution:

Avaya Virtual Services Platforms and A10 Networks Thunder ADC line of Application Delivery Controllers work together to integrate application delivery and network virtualization solutions for high-performance data centers and mission-critical networks.

### Benefits:

- Maximize application performance and reliability to ensure availability
- Reduce operating costs through a reduced hardware footprint and automated network virtualization
- Scale cloud infrastructure to support business needs through a combination of SDN-friendly network virtualization and high-performance application delivery
- Leverage intuitive and flexible programmatic capabilities to meet the high demand for application availability and performance

Explosive data growth is driving the need for extreme network capacity for organizations around the world. A10 Networks® and Avaya have partnered to offer an industry-leading Software Defined Networking (SDN) solution for large data center and high-performance computing environments. We've combined high-capacity, distributed, top-of-rack architecture with innovative application delivery and network virtualization to deliver extreme network capacity.

A10 and Avaya's tightly integrated, best-of-breed virtual services platforms and application delivery controllers (ADCs) deliver the performance, scalability, security and deployment flexibility required by today's enterprises.

### The Challenge

Today's networks are being stretched to the limit by the rapid growth in high-volume traffic tied to a variety of applications, including high-resolution video distribution, online gaming, e-commerce and high frequency trading. Dynamically changing workloads and business demands necessitate higher levels of infrastructure utilization with greater performance and reliability. These demands create numerous requirements for enterprise networks, such as:

- Faster network performance to accommodate increased east-west traffic brought on by greater virtual machine (VM) density
- Stronger interoperability between network virtualization platforms and ADCs to increase availability and performance while reducing infrastructure costs
- More streamlined network virtualization and application delivery management to control operating costs
- Greater operating insight for better capacity planning to control future expansion costs

All of this has created a demand for integrating high-performance application delivery and network virtualization. A10 Networks and Avaya have partnered to deliver an integrated, compact and cost-effective end-to-end SDN solution to help enterprises tackle these issues.

### The A10 Networks-Avaya Application Delivery and Virtualization Solution

A10 Networks and Avaya offer integrated application delivery and network virtualization for high-performance data centers and mission-critical networks. These solutions work together to:

- Streamline network virtualization service provisioning and application delivery
- Improve network and application resilience and performance
- Protect against outages to mission-critical application and network services
- Efficiently support your most mission-critical applications and network infrastructure

As enterprise data centers evolve towards SDN and private cloud infrastructures, they require highly optimized, reliable application delivery and network virtualization. The combined A10 and Avaya suite of solutions offers integration that works seamlessly across the network. The Avaya Virtual Services Platform and A10 Networks Thunder® ADC line of Application Delivery Controllers can work together to ensure that service provisioning and application delivery is fast, reliable and easy to manage.

Interoperability between A10 Thunder ADC and the Avaya Virtual Services Platform delivers a simpler, more scalable architecture with greater resilience and stability, and a lower data center footprint and total cost of ownership (TCO). Avaya Fabric Connect creates self-aware network infrastructures that simplify the logical provisioning of network services and provide the components required to create a simplified, network-wide solution that features active/active connectivity and service-oriented networking from top-of-rack to core. With the ACOS® Harmony™ architecture, built on A10's Advanced Core Operating System (ACOS), Thunder ADC automates policy enforcement, improves visibility and accelerates service integration. Thunder ADC customers can take advantage of the ACOS Harmony architecture to rapidly provision application networking services and effectively manage and monitor their deployments.

Both A10 Networks ACOS and Avaya Fabric Connect technology offer open standards-based programmability for flexible, high-performance application delivery and dynamic service provisioning. Programmability empowers organizations to rapidly deploy and manage dynamic workloads tailored to fit current business needs while easily adapting to evolving application and network requirements.

## Features and Benefits

A10 Networks and Avaya deliver integrated, high-performance network virtualization and application delivery to meet your mission-critical networking needs. This integrated solution allows you to:

- Maximize application performance and reliability to ensure availability
- Reduce operating costs through a reduced hardware footprint and automated network virtualization
- Scale your cloud infrastructure to support your business needs through a combination of SDN-friendly network virtualization and high-performance application delivery
- Leverage intuitive and flexible programmatic capabilities to meet the high demand for application availability and performance

## Solution Components

- A10 Networks Thunder line of Application Delivery Controllers
- ACOS Harmony Architecture
- Avaya Virtual Services Platform (VSP)
- Avaya Fabric Connect

This joint solution using A10 Thunder ADC and Avaya Virtual Services Platform architecture is depicted in Figure 1.

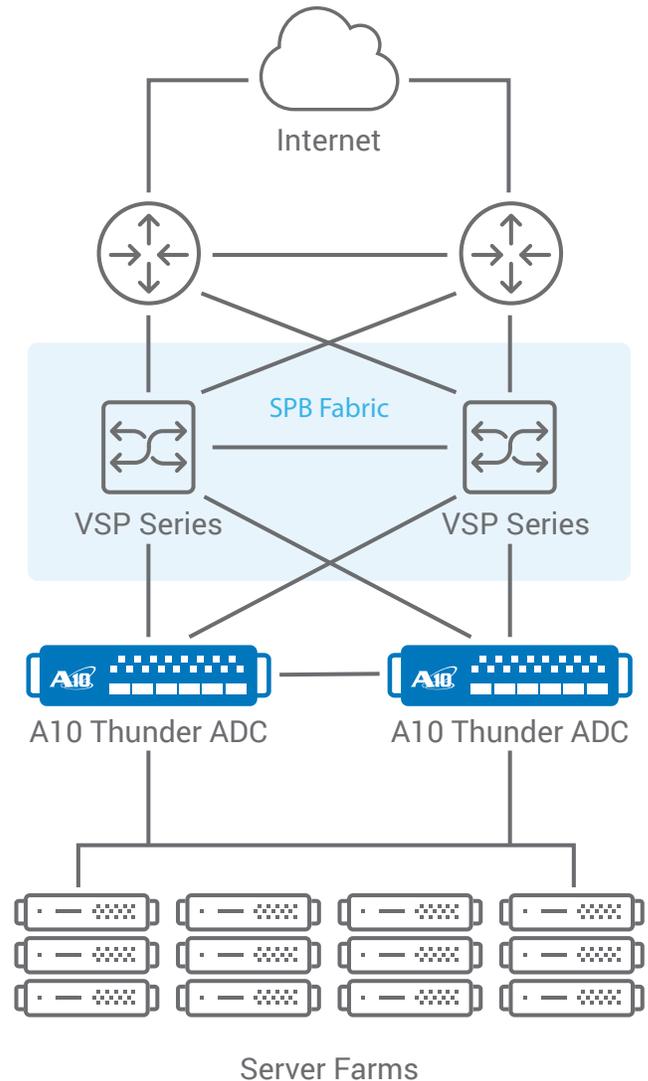


Figure 1: A10 Networks-Avaya joint solution architecture

## Summary – Cost-Effective, Next-Generation Virtualization Solutions without Compromise

Combining A10 Thunder ADC with Avaya Fabric Connect and Avaya VSP provides a scalable solution for high-performance virtualized environments. It offers the enterprise always-on, high-performance virtualization and application delivery while reducing deployment complexity and lowering operating costs. The combination of A10's powerful ACOS platform and Avaya Fabric Connect simplifies SDN, making application and service delivery easier and more efficient than ever. A10 Networks and Avaya deliver integrated and innovative high-performance solutions that enable flexibility, resiliency and stability to maximize the capabilities of your mission-critical network operations.

## About Avaya

Avaya is a leading provider of solutions that enable customer and team engagement across multiple channels and devices for better customer experience, increased productivity and enhanced financial performance. Its world-class contact center and unified communications technologies and services are available in a wide variety of flexible on-premises and cloud deployment options that seamlessly integrate with non-Avaya applications. The Avaya Engagement Environment enables third parties to create and customize business applications for competitive advantage. Avaya's fabric-based networking solutions help simplify and accelerate the deployment of business critical applications and services. For more information please visit [avaya.com](http://avaya.com).

## About A10 Networks

A10 Networks is a leader in application networking, providing a range of high-performance application networking solutions that help organizations ensure that their data center applications and networks remain highly available, accelerated and secure. Founded in 2004, A10 Networks is based in San Jose, California, and serves customers globally with offices worldwide. For more information, visit: [www.a10networks.com](http://www.a10networks.com)

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To learn more about the A10 Thunder Application Service Gateways and how it can enhance your business, contact A10 Networks at: [www.a10networks.com/contact](http://www.a10networks.com/contact) or call to talk to an A10 sales representative.