

SA SERIES SSL VPN VIRTUAL APPLIANCES

Product Overview

According to the IDC Worldwide Mobile Worker Population 2009-2013 Forecast report, the world's mobile worker population will pass the 1 billion mark in 2010 and will grow to nearly 1.2 billion by 2013. Connectivity is needed across various mobile platforms such as Apple iPhones, Microsoft Windows Mobile devices, smart phones, and other mobile devices as well as 3G- and 4G-enabled laptops. Small to medium-sized businesses require affordable enterprise-class IT solutions from managed service providers that won't cost too much money. Juniper Networks SA Series SSL VPN Virtual Appliances enable service providers to offer cost-effective managed SSL VPN service to many customers while addressing service providers' scalability, flexibility, and management concerns. The SA Series Virtual Appliances includes Juniper Networks Junos Pulse—a simple, intuitive client that delivers secure, authenticated access for remote users from any web-enabled device to corporate resources.

Product Description

When it comes to business mobility, the first server to which users connect is almost always the VPN. The challenge is trying to adapt the VPN so that it is also a mobile platform, unbound from existing paradigms, and flexible to the needs of service providers to tap into the mobile marketplace.

For almost 10 years, Juniper Networks® SA Series SSL VPN Appliances have captured the spirit of the mobile VPN experience, especially among large enterprise corporations. But another place where Juniper wants to emphasize importance is in the service provider arena—typically serving smaller customers. Where is the VPN offering that is so simple to manage that a service provider can put it on a web-based order form as an optional service while signing up new business accounts for Internet service? Do you want to include a managed VPN service for X users at X amount per user/month? The SA Series now runs on VMware, specifically designed to fulfill Software as a Service (SaaS) and other cloud-based corporate service initiatives.

The SA Series SSL VPN Virtual Appliances can scale to support virtually an unlimited amount of customers using VMware software. The fully virtualized systems can run completely independent of other customers, provide highly flexible licensing—as well as management interfaces—that can tie directly into the service provider's operational and business support systems.

Juniper Networks Junos® Pulse is a dynamic, integrated, multiservice network client that enables accelerated, secure connectivity and access to networks and the cloud—anytime, anywhere. Included with the SA Series, Junos Pulse provides enterprises improved productivity, collaboration and security, and ubiquitous access to network and cloud-based resources—anytime, anywhere—using any web-enabled device.

Architecture and Key Components

SA Series Virtual Appliances represent the service provider's recipe for managed VPN services. Service providers have made some simple requests to offer managed SSL VPN service to their customers. They want hardware that can scale to support virtually an unlimited amount of customers, fully virtualized systems that can run completely independent of other customers, flexible licensing that doesn't limit their options, and management interfaces that allow them to tie straight into their operational and business support systems. Juniper has delivered on each of these requirements with the SA Series SSL VPN Virtual Appliances.

With the SA Series Virtual Appliances, any service provider can assemble the solution with the following:

- Blade servers running VMware are deployed to support SA Series Virtual Appliances.
- A single bulk license (such as 250,000 concurrent users on a three-year subscription) is applied to a Juniper license server.
- Virtual Appliances configured to meet particular customer's requirements, licensed as needed from the license server, and moved to any VMware server in the world to best support the customer.
- Service provider's own management systems can automate additional configuration changes, license moves, reporting, etc. as needs change.

Subscription Licensing and License Server

With the SA Series Virtual Appliances, Juniper has introduced subscription licensing. Subscription licenses are the method for licensing the virtual appliances, as a service provider simply installs all licenses on the SSL VPN license server and then

assigns licenses at various levels to the virtual appliances.

The license server is the Juniper Networks SA2500 SSL VPN Appliance. Administrators use the license server to assign licenses to the virtual appliance. This provides tremendous flexibility for service providers to easily adjust how much license support they'll need anytime. This capability also eliminates the need to have In Case of Emergency (ICE) licensing since the virtual appliances can burst licensing at any time.

Virtual Appliances Schematic

The following figure shows a typical deployment model where the SA Series Virtual Appliances are hosted by the service provider within a suitable part of the infrastructure, such as a hosting center with direct connectivity to the Internet and connectivity to the customer IP environment. The figure also shows potential service enhancements in the form of dedicated customer blades, where customers can have their own assigned virtual appliance blades offering not only secure remote access, but hosted virtual systems for back-office applications and other network services. Note that the SA Series appliance with the orange halo around it means that it is a virtual appliance.

Junos Pulse

Junos Pulse is an integrated, multiservice network client that enables anytime, anywhere connectivity, security, acceleration, and collaboration with a simplified user experience that requires minimal user interaction. It makes secure network and cloud access easy through virtually any device—mobile or non-mobile, Wi-Fi or 3G-enabled, managed or unmanaged—over a broad array of computing and mobile operating systems. The following table provides the key features and benefits of Junos Pulse.

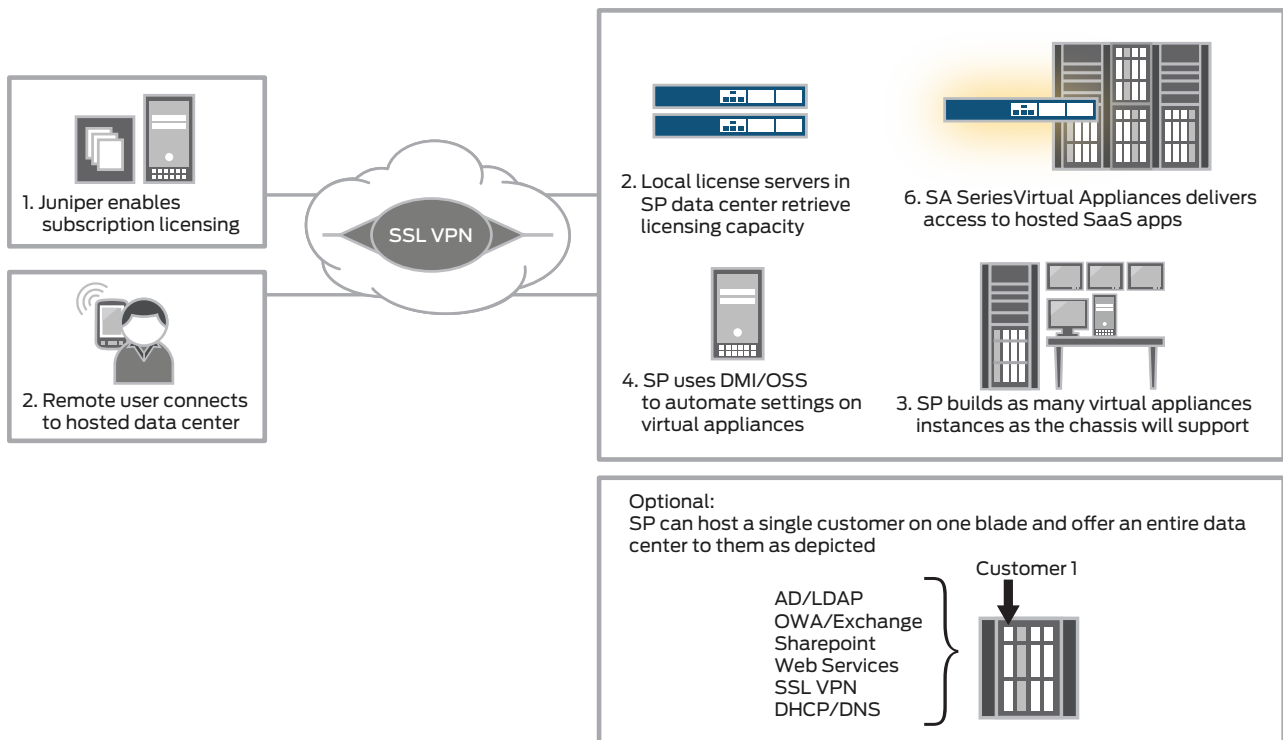


Figure 1: Virtual appliances schematic

Table 1: Junos Pulse Features and Benefits

FEATURES	BENEFITS
Layer 3 SSL VPN (network connect)	<ul style="list-style-type: none"> Layer 3 VPN connectivity with granular access control is provided. SSL mode only is used—no ESP (Encapsulating Security Payload) mode.
Location awareness	<ul style="list-style-type: none"> Seamless roaming from remote access (to SA Series) to local LAN access (via Juniper Networks Unified Access Control) is allowed. Junos Pulse can be preconfigured by admins to automatically prompt end users for credentials to authenticate to the SA Series when they are remote.
Endpoint security	<ul style="list-style-type: none"> Full Host Checker capability checks endpoint security. Enhanced Endpoint Security delivers on-the-fly malware protection, pre-connection scanning policies, and real-time protection supported by both the SA Series and UAC.
Split tunneling options (enable or disable without route monitoring)	<ul style="list-style-type: none"> Key split tunneling options of Network Connect are supported. Secure, granular access control is enforced.
Flexible launch options (standalone client, browser-based launch)	<ul style="list-style-type: none"> Users can easily launch Junos Pulse via the Web from the SA Series landing page. Remote users can simply launch Junos Pulse from their desktop.
Preconfiguration options (preconfigured installer to contain list of SA Series appliances)	<ul style="list-style-type: none"> Admins can preconfigure a Junos Pulse deployment with a list of corporate SA Series appliances from which end users can choose.
Connectivity options (max/idle session timeouts, automatic reconnect, logging)	<ul style="list-style-type: none"> Admins can set up flexible connectivity options for remote users.

For more details on Junos Pulse, please visit www.juniper.net/us/en/products-services/software/junos-platform/junos-pulse/.

Features and Benefits

SA Series SSL VPN Virtual Appliances are the best way to secure and assure access to data centers hosting virtual desktops and other applications, and they provide the following key features and benefits.

High Scalability

- Ensures service providers can quickly scale to meet many new SMB customers.

Services Offerings to Increase Average Revenue per User (ARPU)

- Offers third-party applications to end customers today (such as Enhanced Endpoint Security) and more offerings in the future to further increase revenue stream.

Changing Needs Easily Addressed

- Provides flexibility to do additional configuration changes, license moves, reporting, etc. at any time as required.

Junos Pulse Support for Mobile Devices

- Enables service providers to sell handsets (beyond Blackberry) and services into the enterprise.
- Increases enterprise productivity by empowering employees to access corporate apps on personal and/or corporate handsets.

Long-Term Investment Protection

- Provides users with a single platform to access virtual desktops, Web applications, terminal services, client/server applications, and to obtain access from various mobile devices.
- Enables companies to change their mix of remote access needs over time with a single solution.

Improved Productivity and Ubiquitous Access

- Provides broad cross-platform support including Microsoft Windows, Mac, Linux, Symbian OS, iPhone, Windows Mobile, and others.
- Offers access for diverse audiences (employee, contractor, partner) using a variety of web-enabled devices (corporate laptop, home PC, smartphone, kiosk) from different locations (home, airport, hotel, office).

Easy to Deploy and Manage

- Allows for plug-and-play connectivity—no software to deploy, install, configure, or maintain.
- Requires only a Web browser and Internet connection by user to simplify access experience.

Greater Security

- Enables granular access control to users based on the user type, endpoint device, and network connectivity location.
- Supports endpoint health checking to significantly reduce the influx of machines infected with viruses, trojans, and bots—even from unmanaged devices such as home and contractor PCs.

Superior Reliability

- Proven SSL VPN vendor deployed in tens of thousands of enterprises and service provider networks worldwide.
- Market leader since SSL VPN category was created in 2002, and recipient of numerous awards.

Specifications

Since the SA Series SSL VPN Virtual Appliances are meant for service providers, the specifications needed to run the virtual appliances vary depending on the service provider's network environment. Please consult with your Juniper salesperson to determine the specifications required to run the virtual appliances based on your specific environment.

Juniper Networks Services and Support

Juniper Networks is the leader in performance-enabling services that are designed to accelerate, extend, and optimize your high-performance network. Our services allow you to maximize operational efficiency while reducing costs and minimizing risk, achieving a faster time to value for your network. Juniper Networks ensures operational excellence by optimizing the network to maintain required levels of performance, reliability, and availability. For more details, please visit www.juniper.net/us/en/products-services/.

Ordering Information

PART NUMBER	DESCRIPTION
License Server Licensing	
ACCESS-LICENSE-SVR	Enables appliance as a license server
Subscription Licensing—Includes Maintenance/Support	
ACCESS-2500U-1YR	Subscribe 2,500 simultaneous users to ACCESS for 1 Year
ACCESS-5000U-1YR	Subscribe 5,000 simultaneous users to ACCESS for 1 Year
ACCESS-7500U-1YR	Subscribe 7,500 simultaneous users to ACCESS for 1 Year
ACCESS-10KU-1YR	Subscribe 10,000 simultaneous users to ACCESS for 1 Year
ACCESS-15KU-1YR	Subscribe 15,000 simultaneous users to ACCESS for 1 Year
ACCESS-20KU-1YR	Subscribe 20,000 simultaneous users to ACCESS for 1 Year
ACCESS-25KU-1YR	Subscribe 25,000 simultaneous users to ACCESS for 1 Year
ACCESS-2500U-2YR	Subscribe 2,500 simultaneous users to ACCESS for 2 Years
ACCESS-5000U-2YR	Subscribe 5,000 simultaneous users to ACCESS for 2 Years
ACCESS-7500U-2YR	Subscribe 7,500 simultaneous users to ACCESS for 2 Years
ACCESS-10KU-2YR	Subscribe 10,000 simultaneous users to ACCESS for 2 Years
ACCESS-15KU-2YR	Subscribe 15,000 simultaneous users to ACCESS for 2 Years

PART NUMBER	DESCRIPTION
Subscription Licensing—Includes Maintenance/Support (continued)	
ACCESS-20KU-2YR	Subscribe 20,000 simultaneous users to ACCESS for 2 Years
ACCESS-25KU-2YR	Subscribe 25,000 simultaneous users to ACCESS for 2 Years
ACCESS-2500U-3YR	Subscribe 2,500 simultaneous users to ACCESS for 3 Years
ACCESS-5000U-3YR	Subscribe 5,000 simultaneous users to ACCESS for 3 Years
ACCESS-7500U-3YR	Subscribe 7,500 simultaneous users to ACCESS for 3 Years
ACCESS-10KU-3YR	Subscribe 10,000 simultaneous users to ACCESS for 3 Years
ACCESS-15KU-3YR	Subscribe 15,000 simultaneous users to ACCESS for 3 Years
ACCESS-20KU-3YR	Subscribe 20,000 simultaneous users to ACCESS for 3 Years
ACCESS-25KU-3YR	Subscribe 25,000 simultaneous users to ACCESS for 3 Years

About Juniper Networks

Juniper Networks is in the business of network innovation. From devices to data centers, from consumers to cloud providers, Juniper Networks delivers the software, silicon and systems that transform the experience and economics of networking. The company serves customers and partners worldwide. Additional information can be found at www.juniper.net.

Corporate and Sales Headquarters

Juniper Networks, Inc.
1194 North Mathilda Avenue
Sunnyvale, CA 94089 USA
Phone: 888.JUNIPER (888.586.4737)
or 408.745.2000
Fax: 408.745.2100
www.juniper.net

APAC Headquarters

Juniper Networks (Hong Kong)
26/F, Cityplaza One
1111 King's Road
Taikoo Shing, Hong Kong
Phone: 852.2332.3636
Fax: 852.2574.7803

EMEA Headquarters

Juniper Networks Ireland
Airside Business Park
Swords, County Dublin, Ireland
Phone: 35.31.8903.600
EMEA Sales: 00800.4586.4737
Fax: 35.31.8903.601

To purchase Juniper Networks solutions, please contact your Juniper Networks representative at 1-866-298-6428 or authorized reseller.

Copyright 2011 Juniper Networks, Inc. All rights reserved. Juniper Networks, the Juniper Networks logo, Junos, NetScreen, and ScreenOS are registered trademarks of Juniper Networks, Inc. in the United States and other countries. All other trademarks, service marks, registered marks, or registered service marks are the property of their respective owners. Juniper Networks assumes no responsibility for any inaccuracies in this document. Juniper Networks reserves the right to change, modify, transfer, or otherwise revise this publication without notice.