

# JUNOS PULSE MOBILE SECURITY SUITE

## Product Overview

The use of smartphones continues to grow rapidly worldwide. Smartphones provide the benefit of seamless access to information—anytime, anywhere. However, smartphones go completely unprotected while Web browsing, downloading applications, checking email, conducting online banking, and connecting to social networking sites. They contain sensitive information that must be protected against viruses, malware, spam, breach, theft, and other threats. For enterprises, while smartphones help improve employees' productivity, unprotected devices can mean loss or theft of valuable, confidential data and cause noncompliance with regulations such as the Health Insurance Portability and Accountability Act (HIPAA) or Sarbanes-Oxley Act (SOX). For consumers, threats of this nature can mean loss or theft of financial information, credit card data, and personal files such as photos or music downloads. Junos Pulse Mobile Security Suite offers enterprises and consumers a wide range of security features to protect various mobile devices.

## Product Description

Juniper Networks® Junos® Pulse Mobile Security Suite is a comprehensive solution that includes smartphone security, management, and control. The offering can be sold with Juniper Networks SA Series SSL VPN Appliances or as a standalone solution. The Mobile Security Suite includes both a client component, Juniper Networks Junos Pulse, and the Junos Pulse Mobile Security Gateway, which is available as a Software as a Service (SaaS) hosted offering from Juniper. All functionality converges on the Junos Pulse user interface and includes:

- Antivirus
- Antispam
- Personal firewall
- Loss/theft protection (anti-theft)
- Backup and restore
- Application monitoring and control

While mobile attacks are increasing rapidly and hackers are financially motivated to steal data, identities, and intercept corporate communications, it has become crucial to protect mobile devices such as smartphones and cell phones. The Junos Pulse Mobile Security Suite supports most major smartphone platforms. It provides protection from viruses and malware, physical compromise, as well as other threats for Windows Mobile®, Symbian Series 60®, BlackBerry®, and Google Android® smartphones.

Virus protection updates automatically defend you in real time from malicious applications that may be downloaded from various app stores or through files sent via Multimedia Messaging Service (MMS), Short Message Service (SMS), or email. Theft and loss protection ensure that your sensitive data is secure (and backed up centrally) should your device be lost or stolen. Control and monitoring capabilities ensure that appropriate device usage can be monitored and maintained at all times.

With the Junos Pulse Mobile Security Suite, you can continue to use all of your smartphone features while receiving nonintrusive, effective protection. It is the industry's simplest and most comprehensive solution to secure, manage, and control a broad range of smartphones.

## Architecture and Key Components

Junos Pulse Mobile Security Suite provides the industry's most comprehensive mobile security solution, offering the widest range of security functionality across the broadest set of devices. For example, Figure 1 depicts how the Junos Pulse Mobile Security Suite would look on a Google Android phone. All features described below are delivered by the Junos Pulse client, available for each of the supported mobile platforms (Apple iOS, Google Android, Windows Mobile, Nokia Symbian, and BlackBerry). The Pulse clients\* themselves are available in the following app stores of each platform and can be downloaded by the mobile device free of charge.

- Junos Pulse for iOS: Apple App Store
- Junos Pulse for Google Android\*: Google Apps Marketplace
- Junos Pulse for Nokia Symbian\*: Nokia Ovi Store
- Junos Pulse for Windows Mobile\*: Windows Marketplace
- Junos Pulse for BlackBerry\*: BlackBerry App World

Please note that the Junos Pulse Mobile Security Suite SKUs (shown later in the Ordering Information section) do not include the Junos Pulse clients. The clients are available for download only from the app stores mentioned above. The Junos Pulse Mobile Security Suite delivers a comprehensive array of smartphone and mobile device management and security capabilities, including the following features.

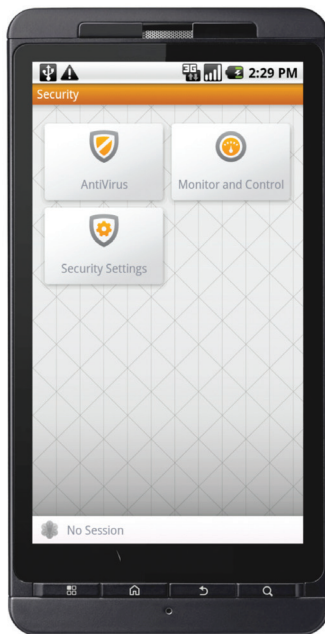


Figure 1: Junos Pulse Mobile Security Suite on Google Android Smartphone

## Proactive Malware Protection

Viruses and malware cause unwanted billing, damage to valuable user data, and can render smartphones unusable. The Junos Pulse Mobile Security Suite protects mobile devices against viruses and malware delivered via email, SMS, MMS, direct download, Bluetooth, or infrared transmission. The Mobile Security Suite

is a unique solution that takes into account specific challenges presented by mobile devices such as limited device memory and limited battery capabilities. It also does not negatively impact device or network performance. Figure 2 depicts how the antivirus module of the Junos Pulse Mobile Security Suite would look on a Google Android phone.

The Mobile Security Suite employs on-access scanning to monitor the integrity of files every time they are accessed. It will protect your smartphone from malware on Windows Mobile, Symbian, BlackBerry, and Google Android devices by automatically detecting malicious code infections as they attempt to infect the operating system. In addition, it has the ability to scan secure digital (SD) cards upon insert to prevent device infection from malware that may have been stored in error. It will also protect your device by scanning all data going to and from your device to ensure that it is free from infection. It is also the only mobile antivirus solution employing advanced heuristic detection.

Key antivirus capabilities of the Mobile Security Suite include:

- First Open Mobile Alliance (OMA) device management-compliant antivirus functionality
- Full protection from the latest mobile threats via automatic virus definition updates
- Real-time monitor scanning of any file received via SMS, MMS, Bluetooth, Wi-Fi, infrared, or desktop sync
- Scans of internal memory, memory card, and/or full device on demand
- Alerts upon detection
- Subscription-based license entitling user to automatic updates, with seamless transfer to new devices

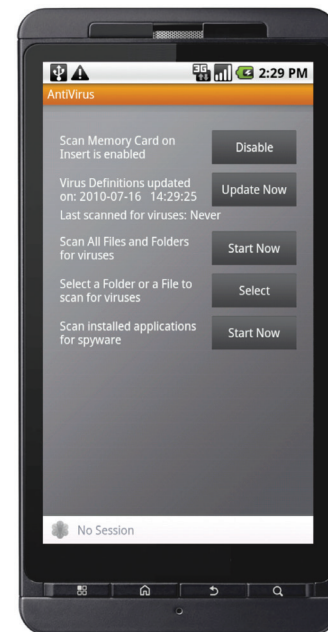


Figure 2: Junos Pulse Mobile Security Suite antivirus module on Google Android Smartphone

\* Junos Pulse for Google Android and Junos Pulse for BlackBerry will be available in late October 2010. Junos Pulse for Nokia Symbian will be available in late November 2010. Junos Pulse for Windows Mobile will be available in late December 2010.

## Personal Firewall

The personal firewall capability of the Mobile Security Suite protects you from current and future threats by providing filtering and blocking of TCP/IP traffic. Through a bidirectional, port, and IP-based packet filtering option, it automatically protects the mobile device from accessing harmful or questionable content, preventing malicious content from being transferred to the device.

The personal firewall of the Mobile Security Suite provides inbound and outbound traffic monitoring using network-level packet filtering and two levels of protection: high and low. By selecting a high level of protection, the user limits allowed ports to the ones specified in the “whitelist,” and blocks traffic from all other unknown ports. The low level of protection will allow communication with all but the blacklisted ports. The firewall can also be configured to block/accept traffic from a specific IP or range of IP addresses, giving you ultimate control over all data traffic on the device.

Key capabilities of the personal firewall capability in the Mobile Security Suite include:

- Inbound and outbound traffic monitoring
- Network-level packet filtering
- Full control of alerts and logging functions
- Filtering based on a customizable whitelist and blacklist

## Spam Protection

The antispam capability of the Mobile Security Suite is the premier message and call manager for mobile devices. Enhanced call and message filtering allow you to prevent interruptions and disturbances, blocking voice and SMS spam. With the capability of customizing the contacts into groups of blacklisted (blocked) numbers, you can choose to block calls and messages from those numbers.

The convenient auto-add feature lets you block incoming calls and messages from rejected numbers. Upon rejecting a call, you will be prompted with the option to add the number to the blacklist, preventing further calls.

Key capabilities of the antispam feature in the Junos Pulse Mobile Security Suite include:

- Blacklist and whitelist filtering
- Simple settings for message disposition (save in the inbox, save to the spam folder, or delete)
- Option to block calls or messages or both
- Automatic addition of contacts to the blacklist
- Option to disable alerts for incoming messages
- Automatic denial for unknown or unwanted calls

## Advanced Protection for Lost and Stolen Devices (Anti-Theft)

Without question, the number of lost and stolen mobile devices is staggering. The ultra-portable nature of smartphones enables you to essentially carry your personal computer in your pocket

to sporting events, grocery stores, airports, and restaurants, significantly increasing the chance of loss and theft.

The unique loss and theft prevention capabilities of the Junos Pulse Mobile Security Suite enables an IT administrator to quickly and easily pinpoint the exact location of a lost or stolen device and have that location displayed in an online map. Users and administrators also have the option to remotely lock a device, remotely set off an alarm on the lost or stolen device, or wipe a user’s personal data to ensure that if it falls into the wrong hands, their personal and business data will not be accessed. The personal data can be remotely backed up and easily imported into a new device. With these capabilities, enterprise customers can minimize the risk of loss of corporate data when their employees lose their smartphones.

Key capabilities of loss and theft protection in the Junos Pulse Mobile Security Suite include:

- Remote backup of personal or business data so that it is available for immediate and future use
- Remote restore of personal or business data to any new device regardless of operating system
- GPS location commands
- Remote GPS tracking in case of loss or theft
- Remote lock of device to make sure identity data is not accessible
- Remote data wipe to ensure personal or business data no longer exists on the device
- SIM change notification
- Automatic security measures taken in case of SIM change

## Application Monitoring and Control

Application monitoring and control features of the Junos Pulse Mobile Security Suite allow administrators to define strict security policy settings for mobile devices. This includes restricting the types of applications installed on them, and monitoring data such as SMS, MMS, etc., that resides on them. The following actions can be taken by administrators to bolster their security policies on smartphone devices:

- View applications installed on mobile handsets
- Define a blacklist of applications that should not be allowed
- Monitor SMS, MMS, or email message content
- Monitor phone call log and contacts
- View photos stored on the device

These features enable enterprise customers to control the types of applications deployed on their employees’ smartphone devices. As a use case for service providers, these features enable parental control services, whereby parents can control the smartphone usage of their children. The Junos Pulse Mobile Security Suite enables a parent to monitor their child’s device and mobile activities via a web-based “dashboard.” Via this easy-to-use interface, parents can view a list of all applications currently installed on the child’s mobile device.

## Simple, flexible client deployment

The Junos Pulse client for mobile platforms enables simple, scalable and flexible deployment of features in the Junos Pulse Mobile Security Suite. These include the following:

- Over-the-air (OTA) license enablement and registration
- Automatic boot upon device restart
- User-friendly interface
- Full logging capability with ability to email logs for troubleshooting

## Smartphones Supported with Junos Pulse Mobile Security Suite

JUNOS PULSE MOBILE SECURITY FEATURE	APPLE IPHONE IOS 4.X (EXACT RELEASE VERSION IS TO BE DETERMINED)	GOOGLE ANDROID 2.0, 2.1, 2.2	WINDOWS MOBILE 6.0, 6.1, 6.5	NOKIA SYMBIAN S60 3RD, 5TH EDITIONS	BLACKBERRY 4.2 AND BEYOND
VPN to the SA Series SSL VPN Appliances	✓	Email and Web Access only	✓	✓	Web Access only
Antivirus		✓	✓	✓	✓
Firewall		*	✓	✓	*
Antispam	*	*	✓	✓	*
Monitor and Control		✓	✓	✓	✓
Backup and Restore		✓	✓	✓	✓
Loss and Theft Protection		✓	✓	✓	✓

\* The features of the Junos Pulse Mobile Security Suite are dependent on the capabilities and functions within the supported mobile operating systems. As capabilities and functions become available, the list of features within the Junos Pulse Mobile Security Suite on specific mobile operating platforms will likely increase.

## Junos Pulse Mobile Security Gateway

Junos Pulse introduces the Mobile Security Gateway—an easy-to-use management console for managing and controlling all of the aforementioned features on mobile devices. The Junos Pulse Mobile Security Gateway can be deployed by enterprises and service providers as a Software as a Service (SaaS) hosted option for easy deployment without the need for an onsite server, and wireless setup and maintenance.

The SaaS deployment allows IT administrators to manage mobile security and remote management policies by logging into a web-based console using any SSL-enabled Web browser. The management console is hosted on Juniper's secure data center, with secure anytime access enabled for IT administrators to manage policies.

Key capabilities of the Junos Pulse Mobile Security Gateway include:

- Detailed security policies for mobile devices
- Protection of mobile devices with antivirus and antispam
- Detailed security reports on infections, updates, firewall rules, and the latest threats
- Quick list and removal of unwanted third-party applications installed across the entire mobile device population
- Remote tracking, lock, wipe, backup, and restore of lost or stolen devices
- Device antispam to control unwanted text and voice communications
- Device firewall
- Document compliance to HIPAA, SOX, GLBA (Gramm-Leach-Bliley Act), etc.

## Host Checker Enhancement on the SA Series SSL VPN Appliances

Host Checker is a key feature on the SA Series SSL VPN Appliances. Host Checker verifies that an endpoint device meets corporate security policy requirements before granting the device access into the network. In addition, Host Checker can remediate the device and quarantine users when necessary if security policies are not met. In essence, Host Checker protects network resources from being infected by devices that are not in compliance with corporate security policies.

With the introduction of the Junos Pulse Mobile Security Suite, a new enhancement has been added to Host Checker. If Host Checker is enabled on the SA Series, Junos Pulse will ensure that the Mobile Security Suite is enabled and active on the mobile device. If the suite is not enabled, the mobile device will not be allowed to authenticate to the SA Series for access into the network. This Host Checker feature on the SA Series will make sure that the device is protected by the Mobile Security Suite prior to being allowed within the enterprise to ensure greater control of mobile devices that are granted access into the corporate network.

For more information about the SA Series SSL VPN Appliances, please visit [www.juniper.net/us/en/products-services/security/sa-series](http://www.juniper.net/us/en/products-services/security/sa-series).

## Features and Benefits

Junos Pulse Mobile Security Suite offers the broadest platform coverage with the most comprehensive range of security applications, including antivirus, antispam, firewall, parental controls, and anti-theft and identity protection. Below are some of the significant features and benefits of the Mobile Security Suite.

Table 1: Features and Benefits

FEATURE	BENEFIT
Automatic virus and spyware definition updates	Provides full real-time protection from whatever latest smartphone threats can occur
Scanning of files received over all network connections	Protects the smartphone from potential malware that can infiltrate the device from multiple sources, including via SMS, MMS, Bluetooth, Wi-Fi, 2.5G, 3G, 4G, infrared or desktop sync
Inbound and outbound traffic monitoring	Protects mobile device from accessing harmful or questionable content and prevents malicious content from being transferred to the device
Blacklist and whitelist filtering	Blocks calls and SMS spam (blacklisted) and allows acceptable calls from whitelisted contacts
Loss/theft protection	Mitigates risks of losing corporate and personal data on a lost or stolen smartphone by remotely locating the device, remotely locking it, setting off an alarm on it, or even remotely wiping the device contents
Remote backup/restore	Allows remote backups of personal and business data and easy imports into a new device, if needed
SMS, MMS, and email message content monitoring	Enables parents to view all messages sent and received
Voice monitoring	Provides call logs of all voice conversations conducted on the device
Picture monitoring	Enables viewing of all photos stored on the device

## Juniper Networks Services and Support

Juniper Networks is the leader in performance-enabling services and support, which are designed to accelerate, extend, and optimize your high-performance network. Our services allow you to bring revenue-generating capabilities online faster so you can realize bigger productivity gains and faster rollouts of new business models and ventures. At the same time, Juniper Networks ensures operational excellence by optimizing your network to maintain required levels of performance, reliability, and availability. For more details, please visit [www.juniper.net/us/en/products-services](http://www.juniper.net/us/en/products-services).

### Ordering Information

Each SKU includes the following:

- License to deploy the Junos Pulse client on as many devices as indicated in the SKU
- Subscription license for the duration indicated in the SKU
- Service and support for the duration indicated in the SKU
- Mobile Security Gateway as a Hosted (SaaS) deployment

MODEL NUMBER	DESCRIPTION
ACCESS-MSS-50U-1YR	Mobile Security Suite (MSS) 1 year subscription for 50 users
ACCESS-MSS-100U-1YR	Mobile Security Suite (MSS) 1 year subscription for 100 users
ACCESS-MSS-250U-1YR	Mobile Security Suite (MSS) 1 year subscription for 250 users
ACCESS-MSS-500U-1YR	Mobile Security Suite (MSS) 1 year subscription for 500 users

MODEL NUMBER	DESCRIPTION
ACCESS-MSS-1000U-1YR	Mobile Security Suite (MSS) 1 year subscription for 1,000 users
ACCESS-MSS-2000U-1YR	Mobile Security Suite (MSS) 1 year subscription for 2,000 users
ACCESS-MSS-2500U-1YR	Mobile Security Suite (MSS) 1 year subscription for 2,500 users
ACCESS-MSS-5000U-1YR	Mobile Security Suite (MSS) 1 year subscription for 5,000 users
ACCESS-MSS-7500U-1YR	Mobile Security Suite (MSS) 1 year subscription for 7,500 users
ACCESS-MSS-10KU-1YR	Mobile Security Suite (MSS) 1 year subscription for 10,000 users
ACCESS-MSS-15KU-1YR	Mobile Security Suite (MSS) 1 year subscription for 15,000 users
ACCESS-MSS-20KU-1YR	Mobile Security Suite (MSS) 1 year subscription for 20,000 users
ACCESS-MSS-25KU-1YR	Mobile Security Suite (MSS) 1 year subscription for 25,000 users
ACCESS-MSS-50U-2YR	Mobile Security Suite (MSS) 2 year subscription for 50 users
ACCESS-MSS-100U-2YR	Mobile Security Suite (MSS) 2 year subscription for 100 users
ACCESS-MSS-250U-2YR	Mobile Security Suite (MSS) 2 year subscription for 250 users
ACCESS-MSS-500U-2YR	Mobile Security Suite (MSS) 2 year subscription for 500 users
ACCESS-MSS-1000U-2YR	Mobile Security Suite (MSS) 2 year subscription for 1,000 users
ACCESS-MSS-2000U-2YR	Mobile Security Suite (MSS) 2 year subscription for 2,000 users

## Ordering Information (continued)

MODEL NUMBER	DESCRIPTION
ACCESS-MSS-2500U-2YR	Mobile Security Suite (MSS) 2 year subscription for 2,500 users
ACCESS-MSS-5000U-2YR	Mobile Security Suite (MSS) 2 year subscription for 5,000 users
ACCESS-MSS-7500U-2YR	Mobile Security Suite (MSS) 2 year subscription for 7,500 users
ACCESS-MSS-10KU-2YR	Mobile Security Suite (MSS) 2 year subscription for 10,000 users
ACCESS-MSS-15KU-2YR	Mobile Security Suite (MSS) 2 year subscription for 15,000 users
ACCESS-MSS-20KU-2YR	Mobile Security Suite (MSS) 2 year subscription for 20,000 users
ACCESS-MSS-25KU-2YR	Mobile Security Suite (MSS) 2 year subscription for 25,000 users
ACCESS-MSS-50U-3YR	Mobile Security Suite (MSS) 3 year subscription for 50 users
ACCESS-MSS-100U-3YR	Mobile Security Suite (MSS) 3 year subscription for 100 users
ACCESS-MSS-250U-3YR	Mobile Security Suite (MSS) 3 year subscription for 250 users
ACCESS-MSS-500U-3YR	Mobile Security Suite (MSS) 3 year subscription for 500 users
ACCESS-MSS-1000U-3YR	Mobile Security Suite (MSS) 3 year subscription for 1,000 users
ACCESS-MSS-2000U-3YR	Mobile Security Suite (MSS) 3 year subscription for 2,000 users
ACCESS-MSS-2500U-3YR	Mobile Security Suite (MSS) 3 year subscription for 2,500 users
ACCESS-MSS-5000U-3YR	Mobile Security Suite (MSS) 3 year subscription for 5,000 users
ACCESS-MSS-7500U-3YR	Mobile Security Suite (MSS) 3 year subscription for 7,500 users
ACCESS-MSS-10KU-3YR	Mobile Security Suite (MSS) 3 year subscription for 10,000 users
ACCESS-MSS-15KU-3YR	Mobile Security Suite (MSS) 3 year subscription for 15,000 users
ACCESS-MSS-20KU-3YR	Mobile Security Suite (MSS) 3 year subscription for 20,000 users
ACCESS-MSS-25KU-3YR	Mobile Security Suite (MSS) 3 year subscription for 25,000 users

## About Juniper Networks

Juniper Networks, Inc. is the leader in high-performance networking. Juniper offers a high-performance network infrastructure that creates a responsive and trusted environment for accelerating the deployment of services and applications over a single network. This fuels high-performance businesses. Additional information can be found at [www.juniper.net](http://www.juniper.net).

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