

JUNOS PULSE: SECURING TODAY'S MOBILE, CONNECTED LIFE

Mobile Network Access and Device
Security through a Single Client

Overview

Today, our world is digital, mobile, and converging. In the year 2000, there were 284 million Internet connections. Today, there are over 2 billion. In the year 2000, the number of mobile devices worldwide was around 700 million. Today, it's over 4 billion. We've gone from chat rooms to video conferences, from dial-up connections to broadband wireless connections.

Just think: It took the radio 38 years to reach 50 million listeners. Television reached 50 million viewers in 13 years. The Internet took only four years. The Apple iPod reached 50 million users in just three years. And, it took social networking site Facebook only nine months to reach 50 million users!

In today's mobile and connected culture, there are more users who are doing more things that require greater bandwidth—all while they are mobile. The network, particularly the mobile network, is an integral part of our day-to-day life.

Trends and Challenges

While today's mobile, connected life clearly has its benefits it also has its challenges and pitfalls.

Business and government must support users who are full- or part-time telecommuters, remote workers, or mobile workers across an increasingly global, mobile work environment. Enabling fast, secure network access for these users is vital to productivity. Many of these same users – and even some companies as well – demand that personal smartphones, tablets, and other personal mobile devices be allowed access to the corporate network. And, if they are not receiving sanctioned enterprise network access, many users are sneaking their personal mobile devices onto the corporate network anyway.

Adding to the problems facing enterprises when mobile users go rogue and access the enterprise network with unmanaged, unapproved personal mobile devices is the number, resilience, and virulence of mobile malware threats, security exploits, and attacks. Mobile threats, exploits and attacks are growing at a magnitude even larger and faster than what was previously experienced with desktop and portable computing devices. Combine these factors, and your IT department is often quite simply overwhelmed.

Our mobile, connected lifestyle also has a major impact on service providers and mobile carriers. The explosion of mobile users and mobile devices, and the deluge of mobile applications has drained service providers' and mobile carriers' bandwidth. As service providers deliver over-the-top services, they are also consuming bandwidth at a fast and furious rate, often without net new, ongoing annuity streams.

And, finally, consumers—you, me, and everyone else who's a part of today's mobile, connected world—use mobile devices for just about everything. Mobile devices span the scope between notebooks and netbooks, to tablet devices and smartphones. Even the smallest form-factor intelligent mobile devices are just really little computers in the palms of our hands. As such, we have and will continue to store sensitive, private data and information on these devices, such as bank account numbers, credit card numbers, social security and other identification numbers, even medical data. This makes smartphones, tablets, and other mobile devices a gold mine for identity thieves and hackers. It also makes these mobile devices dangerous if lost. Imagine your vital financial, personal or business data—even pictures of your children—falling into the wrong hands.

Juniper Networks Junos Pulse

Juniper Networks® Junos® Pulse addresses these mobility challenges, delivering connectivity and security for mobile devices at scale, allowing enterprises to secure network access and corporate issued or personal mobile devices for employees and other users, and enabling service providers to offer secure access and mobile security as managed services for their enterprise and consumer customers.

Junos Pulse delivers secure, mobile remote network access, reinforced by strong security against malware, viruses, loss or theft, and other exploits—all from a single client.

Junos Pulse provides users, enterprises, and service providers with a complete, end-to-end mobile security offering.

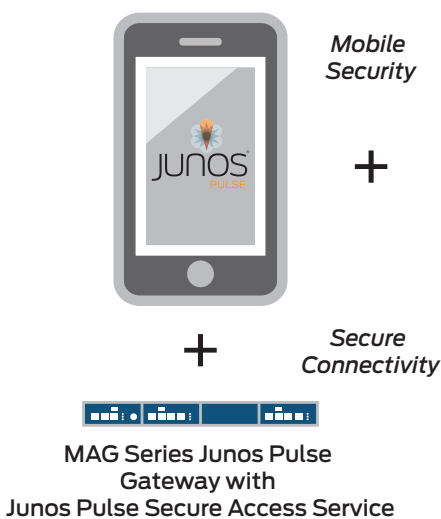
Secure Access and Connectivity

Enterprises and service providers alike are challenged to deliver secure, mobile remote network access, while limiting resource access based on authentication, authorization and user identity.

Junos Pulse, through the Junos Pulse Secure Access Service in conjunction with the MAG Series Junos Pulse Gateways, leverages Juniper's industry-leading SSL VPN technology to provide simple, secure, authenticated access to corporate networks and resources

for mobile users from any supported smartphone, tablet, or mobile device. The Junos Pulse client, downloadable free of charge from most major mobile application stores and markets, serves as a simple, integrated user interface for the Junos Pulse Secure Access Service, which with the MAG Series protects enterprises and their sensitive data by securely enabling granular, role-based mobile remote network and application access over a broad range of smartphones, tablets, and other mobile devices.

Junos Pulse, working in conjunction with the MAG Series gateways and Junos Pulse Secure Access Service, delivers a broad range of purpose-driven remote network and application access methods, including browser-based application access, secure email and calendaring via secure ActiveSync proxy, as well as a complete Layer 3 VPN tunnel. Junos Pulse, the MAG Series gateways, and Junos Pulse Secure Access Service provide mobile remote users and their transmitted information with unparalleled “data in transit” security. Junos Pulse enforces a simple, consistent level of authentication and access control, to smartphones, tablets, and mobile devices, as well as notebooks or netbooks. It also supports multifactor authentication, including the use of soft and hard tokens. And, Junos Pulse – in conjunction with the MAG Series gateways and Junos Pulse Secure Access Service – provides detailed audit logs, perfect for use in regulatory compliance audits.



Junos Pulse Mobile Security Gateway	
Antimalware	<ul style="list-style-type: none"> • Real-time protection • Heuristics based • Scans all files • Scans all connections
Personal Firewall	<ul style="list-style-type: none"> • Inbound and outbound filtering • Alerts and logging • Customizable
Antispam	<ul style="list-style-type: none"> • Blocks SMS and voice spam • Blacklist filtering • Automatic denial options
Loss and Theft Protection	<ul style="list-style-type: none"> • Remote lock and wipe • Backup and restore • GPS locate and track • SIM change notification
Device Control	<ul style="list-style-type: none"> • App inventory and control • Content monitoring

Comprehensive Mobile Security

As users continue to demand mobile remote access to corporate networks and applications from their personal smartphones, tablets, and like mobile devices, enterprises and service providers—many of whom already deliver managed access services to their SMB and enterprise clients—face a complex security problem: A personal mobile device left unprotected or unchecked can lead to the loss, theft, and compromise of valuable, confidential data—both corporate and personal.

Junos Pulse, in conjunction with the Junos Pulse Mobile Security Suite, delivers a comprehensive mobile security, management, and control solution. It protects smartphones, tablets, and other mobile devices from viruses, malware, spam, loss, theft, physical compromise, and other looming threats. Junos Pulse delivers Day Zero malware protection

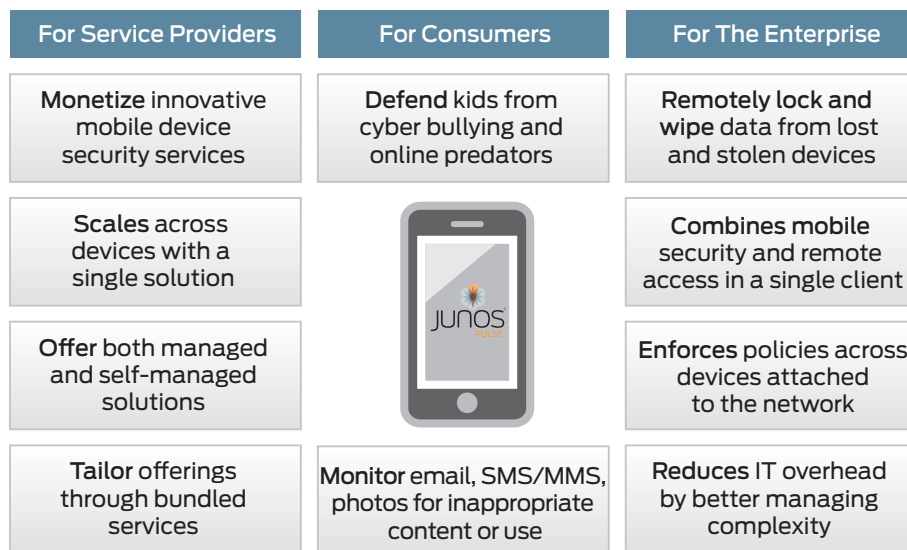
through its powerful, heuristics based antimalware services. It also delivers mobile device management (MDM), and monitoring and control services that are purpose-built to secure and manage mobility. Junos Pulse – via the Junos Pulse Mobile Security Suite – can track and locate a lost or stolen mobile device, back up data from these devices, and wipe and lock the device, all remotely. It can sound an alarm on a mobile device, send an alert when its SIM card has been removed, swapped, or replaced, and continue to track the device even if the SIM card has been removed.

As a managed service, Junos Pulse, with the Junos Pulse Mobile Security Suite, delivers robust security against malware and viruses, which translates into increased revenues for service providers and mobile carriers. Junos Pulse also protects you, your children, and your financial security by securing your smartphones, tablets, or other mobile devices from viruses, malware, and spam, preventing lost or stolen devices from ruining your economic security, alleviating identity theft, and protecting your family—especially your

most valuable asset, your children—by securing your child’s mobile device from, and monitoring it for inappropriate use and contact.

Junos Pulse is flexible, supporting personal mobile device access to corporate networks and resources through a zero touch deployment model. A cloud-based, Software-as-a-Service (SaaS) offering—which speeds and simplifies deployment and user rollout—Junos Pulse Mobile Security Suite includes the Juniper Networks Junos Pulse Mobile Security Gateway, a hosted, web-based administrative management console from which Junos Pulse Mobile Security Suite services are enabled and managed by enterprises and service providers.

Junos Pulse, through the Junos Pulse Mobile Security Suite, enables service providers to offer profitable premium, managed services for their enterprise and consumer subscribers, increasing average revenue per user (ARPU), providing competitive differentiation, and raising user satisfaction levels.



Junos Pulse Delivers Secure Mobility to Mobile Device Users

Summary—Security for Today’s Mobile, Connected Life

Junos Pulse powerfully yet simply centralizes mobile security and access services, delivering secure, mobile remote access, while insuring the integrity of managed and unmanaged, corporate-issued and personal smartphones, tablets, and mobile devices. Junos Pulse – integrating the MAG Series Junos Pulse Gateways, Junos Pulse Secure Access Service, and Junos Pulse Mobile Security Suite – delivers a robust, secure mobility solution supporting most major mobile devices and operating systems with an unparalleled depth and breadth of mobile access, security, management and control services.

Junos Pulse secures the critical aspects of your mobile, digital life , 24/7—protecting your corporate and personal data, your identity, and your family. It’s secure, fast, simple, and transparent, and it’s always on and always connected—just like you!

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.

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