

JUNOS PULSE FOR APPLE IOS

Junos Pulse Delivers Secure, Mobile Remote Access for Apple iPhone, iPad, and iPod Touch Users

Challenge

The meteoric growth of Apple's iPhone and iPad for personal and corporate use has led to iPhone and iPad users demanding mobile remote access to enterprise networks and resources. But how can companies ensure secure mobile remote access and connectivity from these mobile devices?

Solution

Juniper Networks Junos Pulse, in conjunction with Juniper Networks SA Series SSL VPN Appliances, or the Juniper Networks MAG Series Junos Pulse Gateways running Junos Pulse Secure Access Service, lets Apple iPhones, iPads, and iPod touch devices securely connect to the corporate network and its resources, with users enjoying the same experience as on their notebooks and netbooks.

Benefits

- Fast, secure mobile remote access
- Support for multiple authentication methods, including multifactor authentication methods
- Split tunneling support
- Smart, simple, secure connectivity and deployment

Mobility is the new cornerstone for enterprise productivity. Corporate users, from grizzled veteran employees to Generation Y'ers, are all seeking anytime, anywhere access to the enterprise network and its resources. And many of these corporate users—including employees, contractors, partners, and the like—wish to access the enterprise network with an Apple iPhone, iPad, or iPod touch. It doesn't matter to these corporate users whether the Apple iPhone, iPad, or iPod touch with which they attempt enterprise network access is a personal, unmanaged, or corporate-issued managed device.

As a result, the need to secure mobility today is greater than ever, as are its challenges. As smartphones such as the Apple iPhone, tablet devices such as the Apple iPad, and other intelligent mobile devices become ubiquitous tools in everyday personal and business life, the need for these devices to access critical, sensitive data stored on enterprise networks continues to grow. The problem is, how can an enterprise be assured that an unmanaged, personal Apple iPhone, iPad, or iPod touch—or for that matter a corporate-issued, managed device serving dual purpose as a personal mobile device—is accessing the enterprise network and its resources securely while mobile.

The Challenge

The Apple iPhone is one of the most popular smartphones on the market. There are millions of Apple iPhones and other Apple iOS personal or corporate mobile devices such as the Apple iPod touch in use today. The Apple iPad has quickly become the leading tablet device on the market, with estimates of enterprises purchasing many more for their employees. The availability of corporate applications for this platform makes these devices attractive for simple and portable corporate use. Many times, though, the line between corporate and personal use blurs, and this can lead to problems for enterprises that allow personal or even corporate-issued iPhones, iPads, and iPod touch devices to access their corporate network and its resources.

Furthermore, when accessing an enterprise network with an unmanaged device (which, in reality, includes most mobile devices today, since users typically are allowed at least some control over the use and application of their devices), it is unknown whether that device adheres to corporate security policies. As a further challenge to enterprise network security, personal or even corporate-issued Apple iPhones, iPads, or iPod touch devices may be vulnerable to attack when accessing the corporate network, especially if the user's network access method is not secure or encrypted.

These mobile access control issues require the immediate attention of enterprises, to prevent sensitive corporate data from being lost, stolen, and exploited.

The Junos Pulse for Apple iPhone, iPad, and iPod Touch Solution

Juniper Networks® Junos® Pulse is an integrated, multiservice network client enabling anytime, anywhere secure, mobile remote access with a simplified user experience that requires minimal user interaction.

Junos Pulse for Apple iOS 4.2 delivers comprehensive, secure mobile remote access to enterprise networks when used in conjunction with the Juniper Networks SA Series SSL VPN Appliances running version 6.4 or greater, or the Juniper Networks MAG Series Junos Pulse Gateways with the Junos Pulse Secure Access Service. When deployed together, Junos Pulse and either the SA Series appliances, or the MAG Series gateways with the Junos Pulse Secure Access Service deliver full mobile remote access to the enterprise network and its corporate applications. Connectivity is just like one would expect from a notebook or netbook device, but now it is accessible from an Apple iPhone, iPad, or iPod touch. Users can remotely view and actively work with their existing desktop on their notebook or desktop PC via Remote Desktop Protocol (RDP). Junos Pulse and SA Series appliances or the MAG Series gateways running the Junos Pulse

Secure Access Service work together to deliver secure, identity-based network and application access based on granular application tunneling policies.

Junos Pulse also leverages existing corporate authentication methods, including multifactor authentication methods, to simplify administration. Existing identity management policies can be leveraged for authentication and authorization, thereby enabling granular secure access without recreating policies, further saving administrative time and effort.

Junos Pulse for Apple iOS also supports Encapsulating Security Payload (ESP) as a transport mode. This means that users connecting to their corporate network will enjoy the speed of an IPsec VPN connection with the encryption and security of an SSL VPN connection. And, should the ESP connection be prevented in the network for any reason, Junos Pulse will dynamically fail over to SSL as a transport mode. Junos Pulse for Apple iOS also supports split tunneling with the SA Series or the MAG Series running Junos Pulse Secure Access Service, allowing the flexibility to specify which subnets or hosts to include or exclude from tunneling. It also allows split tunneling to be disabled, enabling access to local subnets.

Features and Benefits

The features, functionality, and benefits delivered by Junos Pulse for Apple iOS include:

FEATURE	BENEFIT
Fast, secure mobile remote access	Junos Pulse, in combination with SA Series appliances or the MAG Series gateways running Junos Pulse Secure Access Service, delivers full Layer 3 VPN connectivity for Apple iPhone, iPad, and iPod touch users with granular access control. ESP transport mode is supported, with a dynamic failover to SSL transport mode, as needed.
Multiple authentication method support	Junos Pulse leverages existing corporate authentication methods as well as existing Identity Management systems to enable granular, secure remote network and application access from an Apple iPhone, iPad, or iPod touch.
Split tunneling	Junos Pulse can enable split tunneling, or disable split tunneling with access to a local subnet in conjunction with the SA Series or the MAG Series running the Junos Pulse Secure Access Service.
Deployment via iPhone Configuration Utility	Flexible enterprise-wide deployment via iPhone Configuration Utility (Apple's <i>iPhone OS Enterprise Deployment Guide</i> describes this utility; also compatible with Apple <i>VPN on Demand</i>).
Smart connectivity	Automatically tears down the VPN tunnel after a configurable idle timeout. Reestablishes VPN connection when the Apple iPhone or iPad wakes up and is using Wi-Fi, or when the iPhone or iPad is using the third-generation (3G) network and generates application traffic after a configurable idle time.
Ability to automatically launch from other applications	The Junos Pulse client can be launched automatically from other client applications using a URL scheme in the following format: <code>junospulse://<server-host>/<server-path>?method={vpn}&action={start stop}</code> This allows custom applications to launch VPN connectivity dynamically, enabling corporate connectivity when a particular application is invoked.

Solution Components

Junos Pulse for Apple iOS is comprised of the Junos Pulse software client, which interoperates with the SA Series SSL VPN Appliances or the MAG Series Junos Pulse Gateways and the Junos Pulse Secure Access Service. The SA Series, or the MAG Series running Junos Pulse Secure Access Service, communicate with the Junos Pulse client for the Apple iPhone, iPad, or iPod touch, enabling secure, encrypted connectivity and communications between the Apple iPhone, iPad, or iPod touch and the enterprise network and resources. Junos Pulse combines with the SA Series or the MAG Series running Junos Pulse Secure Access Service to deliver robust protection for enterprise data and uniform security policies for all enterprise mobile users, including Apple iPhone, iPad, and iPod touch users.

Junos Pulse for Apple iOS leverages the capabilities of the market-leading SA Series SSL VPN Appliances, and the MAG Series Junos Pulse Gateways with Junos Pulse Secure Access Service, offering some of the most scalable remote access services on the market. The SA Series is also available as a virtual appliance, furthering its ability to effectively scale. Through its integration with the SA Series or the MAG Series running Junos Pulse Secure Access Service, Junos Pulse enables enterprises to create and enforce consistent remote access and mobile access policies, saving time and cost. Junos Pulse, and the SA Series or the MAG Series with Junos Pulse Secure Access Service, works in sync to ensure that granular access policies are enforced uniformly regardless of the access device and method.

The Junos Pulse for Apple iOS client is available for download by users free of charge from the App Store at <http://itunes.apple.com/us/app/junos-pulse/id381348546?mt=8>. Juniper Networks SA Series SSL VPN Appliances and the MAG Series Junos Pulse Gateways, running the Junos Pulse Secure Access Service, are available from Juniper or one of Juniper's authorized partners in a variety of appliance form factors, depending on the number of concurrent user licenses needed by an enterprise.

Summary—Juniper Enables Secure Mobile Network Access for Apple iPhone, iPad, and iPod Touch

With millions of Apple iPhones and Apple iPads in use today as personal and corporate devices—both managed and unmanaged—many users are demanding access to their enterprise network and resources from their Apple iPhones, iPads, and iPod touch devices in order to increase their mobile and after-hours productivity. This means that secure mobile remote access from an Apple iPhone, iPad, or iPod touch device to the enterprise network, applications, sensitive data, and other network resources is critical. And enterprises need to address this situation immediately to ensure that their data in transit isn't being hacked or stolen, as well as to secure their network against other exploits.

Junos Pulse, in conjunction with either the SA Series SSL VPN Appliances, or the MAG Series Junos Pulse Gateways running the Junos Pulse Secure Access Service, delivers secure mobile remote access from managed or unmanaged Apple iPhones, iPads, and iPod touch devices, ensuring that the enterprise network and its data remain safe. Junos Pulse for Apple iOS increases a remote mobile user's productivity while at the same time ensuring granular authentication and access control for the enterprise.

Next Steps

For more information on Juniper Networks Junos Pulse for Apple iOS, please refer to the Juniper Networks website at www.juniper.net/us/en/products-services/software/software-platforms/junos-platform/junos-pulse/; and please contact your Juniper Networks representative or authorized partner.

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.