

PULSE SECURE FOR APPLE iOS

Pulse Secure 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

Pulse Secure for iOS, in conjunction with Pulse Secure's SA Series SSL VPN Appliances, or the MAG Series Pulse Secure Gateways running Pulse Connect Secure, 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 Pulse Secure for Apple iPhone, iPad, and iPod Touch Solution

Pulse Secure for Apple iOS is an integrated, multiservice network client enabling anytime, anywhere secure, mobile remote access with a simplified user experience that requires minimal user interaction.

Pulse Secure for Apple iOS delivers comprehensive, secure mobile remote access to enterprise networks when used in conjunction with the Pulse Secure's SA Series SSL VPN Appliances running version 6.4 or greater, or the MAG Series Pulse Secure Gateways

running Pulse Connect Secure. When deployed together, Pulse Secure for Apple iOS and either the SA Series appliances, or the MAG Series gateways running Pulse Connect Secure 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). Pulse Secure for Apple iOS and SA Series appliances or the MAG Series gateways running the Pulse Connect Secure work together to deliver secure, identity-based network and application access based on granular application tunneling policies.

Pulse Secure for Apple iOS 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.

Features and Benefits

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

Feature	Benefit
Fast, secure mobile remote access	Pulse Secure for Apple iOS, in combination with SA Series appliances or the MAG Series gateways running Pulse Connect Secure, delivers Pulse Secure's 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	Pulse Secure for Apple iOS 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	Pulse Secure can enable split tunneling, or disable split tunneling with access to a local subnet in conjunction with Pulse Secure's SA Series or the MAG Series running the Pulse Connect Secure.
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 Pulse Secure Apple iOS client can be launched automatically from other client applications using a URL scheme in the following format: pulse://<server-host>/<server-path>?method={vpn}&action={start stop} This allows custom applications to launch VPN connectivity dynamically, enabling corporate connectivity when a particular application is invoked.

Solution Components

Pulse Secure for Apple iOS is comprised of the Pulse Secure software client, which interoperates with the SA Series SSL VPN Appliances or the MAG Series Pulse Secure Gateways running Pulse Connect Secure. The SA Series, or the MAG Series running Pulse Connect Secure, communicate with the Pulse Secure 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. Pulse Secure for Apple iOS combines with the SA Series or the MAG Series running Pulse Connect Secure to deliver robust protection for enterprise data and uniform security policies for all enterprise mobile users, including Apple iPhone, iPad, and iPod touch users.

Pulse Secure for Apple iOS leverages the capabilities of the market-leading SA Series SSL VPN Appliances, and the MAG Series Pulse Secure Gateways running Pulse Connect Secure, offering some of the most scalable remote access services on the market. The SA Series is also available as a virtual appliance,

Pulse Secure 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, Pulse Secure will dynamically fail over to SSL as a transport mode. Pulse Secure for Apple iOS also supports split tunneling with Pulse Secure's SA Series or the MAG Series running Pulse Connect Secure, 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.

furthering its ability to effectively scale. Through its integration with the SA Series or the MAG Series running Pulse Connect Secure, Pulse Secure for Apple iOS enables enterprises to create and enforce consistent remote access and mobile access policies, saving time and cost. Pulse Secure for Apple iOS, and the SA Series or the MAG Series with Pulse Connect Secure, works in sync to ensure that granular access policies are enforced uniformly regardless of the access device and method.

The Pulse Secure 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>. SA Series SSL VPN Appliances and the MAG Series Pulse Secure Gateways, running the Pulse Connect Secure, are available from Pulse Secure or one of Pulse Secure's authorized partners in a variety of appliance form factors, depending on the number of concurrent user licenses needed by an enterprise.

Summary

Pulse Secure 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.

Pulse Secure for Apple iOS, in conjunction with either the SA Series SSL VPN Appliances, or the MAG Series Pulse Secure Gateways running the Pulse Connect Secure, 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. Pulse Secure 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 Pulse Secure, please refer to the Pulse Secure website at www.pulsesecure.net and contact your Pulse Secure representative.

About Pulse Secure, LLC

Pulse Secure, LLC is a leading provider of access and mobile security solutions to both enterprises and service providers. Enterprises from every vertical and of all sizes utilize the company's Pulse virtual private network (VPN), network access control and mobile security products to enable end user mobility securely and seamlessly in their organizations. Pulse Secure's mission is to enable open, integrated enterprise system solutions that empower business productivity through seamless mobility.

Corporate and Sales Headquarters

Pulse Secure LLC
2700 Zanker Rd. Suite 200
San Jose, CA 95134
(408) 372-9600
www.pulsesecure.net

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