Columbitech Mobile VPN for Mac OS, iOS, Android and Windows

mHealth Security
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Mobile Security in Healthcare

Mobile health applications are on the rise with positive impact on efficiency and accuracy as well as quality of care and patient safety. However, mobile applications expose health organizations to new challenges, including how to mitigate the risk of a data breach and how to maintain compliance with the Health Insurance Portability and Accountability Act, which regulates the security and privacy of health data.

HIPAA calls for the use of proper security measures, using well tested security protocols that have been tested and validated by the National Institute of Standards and Technology (NIST) under its FIPS 140-2 validation program to prevent that information ends up in the wrong hands.

**FIPS-validated and HIPAA compliant**

The Columbitech Mobile VPN uses FIPS 140-2 validated end-to-end encryption as required by HIPAA. In addition, the actual implementation of the approved security protocols and algorithms has been validated by the NIST*.

The use of a validated product with approved security components guarantees best practice and ensures regulatory compliance.

Columbitech’s mobile VPN supports advanced two-factor authentication to ensure that only authorized users are granted access to the network. Supported authentication methods include unique client certificates, user-based public key infrastructure, onetime passwords, smartcards, biometric systems, and software and hardware tokens. The Columbitech management server automates tracking of all network attempts.

In addition, Columbitech Mobile VPN provides integrity monitoring (SHA-1) of all data in motion as well as support for Network Access Control (NAC), which enables enforcement of the organization’s IT policy.

**Easy to integrate with any mobile app**

By using Columbitech’s software development kit, the mobile VPN features can easily be integrated into any mobile application used to access medical information, providing immediate HIPAA compliance.

* The Columbitech FIPS 140-2 certificate can be found on the NIST website under certificate number #307.
Multi-platform support
Columbitech Mobile VPN offers multi-platform support, including Apple iOS and Mac OS, Android, Windows, and Linux.

Session persistence improves performance
Wi-Fi networks at hospital campuses have dead spots and cellular coverage can be spotty for healthcare professionals accessing medical information from the field. It causes users to constantly have to re-log in to the system and re-enter lost data after temporary network glitches or when the device roams to a new network.

Columbitech Mobile VPN has several different mobility features that improve performance of mobile devices. It creates a persistent connection between the mobile device and the server as physicians, nurses or paramedics move around and switch networks or temporarily lose coverage. The mobile VPN automatically reestablishes the connection so that users do not lose data or have to reauthenticate and restart applications when the connection is reestablished.

Advanced data compression provides up to 100 percent faster throughput compared to SSL and IPSec VPNs. This improves the application performance in networks with limited bandwidth.

Enabling BYOD
Employees are increasingly using their personal devices in the workplace and IT departments are challenged with how to secure both corporate-issued devices and personal devices.

The Columbitech Mobile VPN helps organizations deal with the bring-your-own-device (BYOD) strategy by creating a clear separation between how users access personal and enterprise data on the device. With this approach, organizations can focus on securing the important applications, instead of securing all the content. The mobile VPN can be implemented as a secure browser, functioning like a secure container that mobile users are required to use to access certain web applications and data residing behind the organization’s firewall.

Cloud-based or on premises
Columbitech Mobile VPN solution is a client/server-based VPN software architecture and does not require any additional hardware. The VPN server supports virtualization and can be installed on a server computer on premises but is also available as a cloud-based service, where the server is hosted and managed off-site.

The VPN server can handle up to 10,000 concurrent users and it is possible to cluster as many as 255 mobile VPN servers in one server group. Columbitech offers a Gatekeeper that further strengthens the protection as well as handles load balancing and failover between the VPN servers in larger deployments.

Provisioning
Columbitech Mobile VPN leverages existing tools for deploying software such as Windows MSI packages or leading mobile device management solutions.

It also provides built-in support for version updates and distribution of security credentials such as digital certificates. Mobile devices using Android or iOS are easy to deploy directly from the iTunes App Store (iOS) or Google Play (Android) and are configured by simply scanning a QR code.

Pricing
The software is available as life-time perpetual licensing or software-as-a-service with monthly licensing.

Mobile devices using Android or iOS are configured by simply scanning a QR code.
TECHNICAL SPECIFICATION

CLIENT SUPPORT

Apple iOS 5.0 and up
Apple Mac OS Snow Leopard 10.6 and up
Android 4.0 and up
Android 2.2/2.3 (rooted)
Windows XP/Vista/7/8
Windows Mobile 2002/2003/5.x/6.x
Windows CE 3.x/4.x/5.x
MS-DOS and DR-DOS
Embedded systems

For any other platforms, the Columbitech embedded SDK can be used to create a custom VPN client.

SERVER SUPPORT

Windows 2003/2008/2012
Linux (kernel 2.6.8 or higher)

NETWORKS

Ethernet (fixed)
Wi-Fi (private and public)
Mesh networks
Cellular networks (WiMAX, 2G, 3G, and 4G)
Dial-up
Satellite

ENCRYPTION

Up to 256-bit AES encryption (FIPS 140-2 validated)

AUTHENTICATION

Client certificates (PKI x.509)
Windows Active Directory
Common access cards
Smart cards
RSA SecurID
Biometrics
Radius
Google authenticator
Verizon Universal Identity Services (UIS)
SMS

About Columbitech
Columbitech protects the entire workforce with one FIPS-validated VPN solution. With more than two million users, customers include three of the top 10 U.S. retailers, public safety agencies, telecom providers and U.S. military branches. Columbitech is privately held, with offices in Stockholm and New York. Visit www.columbitech.com for more information.