

**COLUMBITECH**



## **Columbitech Mobile VPN**

Secure Wireless Communication for Military and Federal, State, and Local Governments



# Always Connected. Always Secure.

Whether you are charged with enabling secure mobile access to information resources for homeland security, military missions, or on-the-road connectivity for state and local government teams, such as police, fire, or emergency medical technicians, Columbitech has the solution that provides secure mobile access for your mobile teams.

Columbitech enables government agencies and military organizations to deploy mobile solutions with secure wireless access to data on the network without compromising the security of their systems. Whether the application is command and control, situational awareness, records management, dispatching, or force protection, Columbitech securely extends mission-critical applications to the point of activity, using any type of device or IP-based network. It enhances productivity and provides information that can help improve citizens' safety.

## Standard Based Security

Columbitech Mobile VPN is a virtual private network (VPN) that uses a public telecommunication infrastructure, such as the Internet, to provide remote offices or mobile users with secure access to their organization's network. Unlike other VPN solutions that are used for fixed remote access from a laptop or desktop computer, Columbitech's VPN is built to secure smartphones and PDAs used for mobile applications. Columbitech Mobile VPN is a third-generation VPN, based on the transport layer security (TLS) protocol, which has been optimized for wireless networks.

## Validated by NIST and FIPS 140-2 Certified

The entire Columbitech Mobile VPN solution holds a FIPS 140-2 certification, which ensures compliance with governments' and department of defense regulations. Unlike other VPN products claiming FIPS compliance, both the Columbitech client and server software have been fully reviewed and tested by the National Institute of Standards and Technology (NIST).

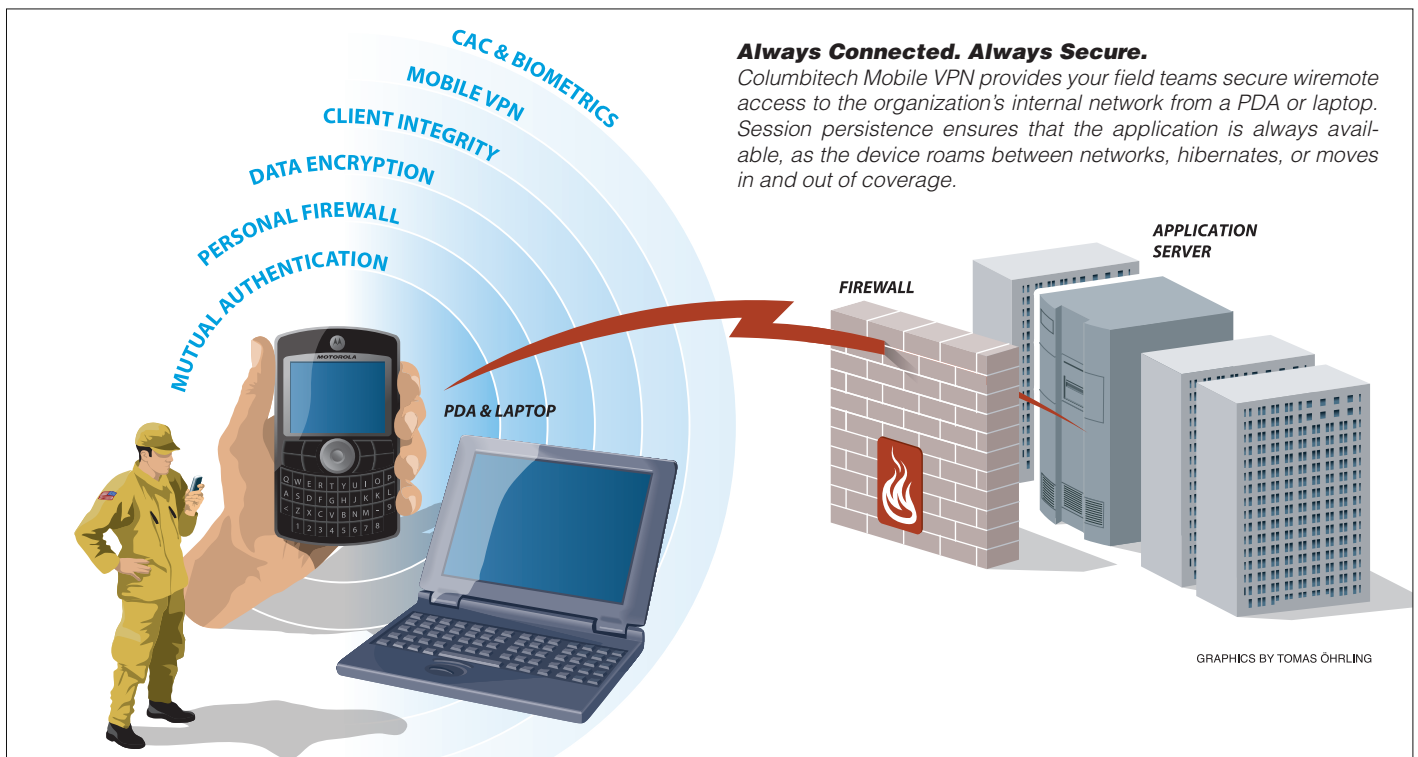
## Military-Grade Security

The Columbitech solution supports multifactor authentication, including a broad range of standards-based authentication mechanisms such as client certificates, common access cards (CAC), biometrics, RSA SecurID, Windows Active Directory, and RADIUS. The VPN client encrypts all data, using up to 256-bit AES encryption and SHA-1.

The network access control (NAC) function protects the network from devices with viruses and malwares by validating that connecting devices are authorized and compliant with the organization's security policy.

## Device and Network Agnostic

Columbitech Mobile VPN supports all open platforms and can be deployed to provide secure access from any mobile device, including smartphones, laptops, mobile computers, vehicle-mounted computers, printers, and other industrial devices. The solution is application transparent and does not require any soft-



# Always Connected. Always Secure.

ware changes. It instantly secures mobile applications used for access control, supply and vehicle tracking, emergency assistance, and identity verification, among other things.

Furthermore, Columbitech Mobile VPN is network agnostic and offers the same high security over any type of TCP/IP-based network including Wi-Fi, 3G (EV-DO, HSDPA and CDMA), Satellite, WiMAX, and Ethernet.

Columbitech Mobile VPN runs in the background, and is completely seamless to the user. It allows users focus on the actual task at hand instead of worrying about the connection.

## Session Persistence for True Mobility and Availability

Unlike VPNs used for remote fixed access from a laptop and desktop, Columbitech Mobile VPN is built for true mobility with an exceptional ability to handle the special challenges of the wireless world. These challenges include networks with limited bandwidth and unstable connections as well as mobile devices with limited battery power, memory space, and processing power.

With features such as session persistence and seamless roaming, Columbitech Mobile VPN not only provides military-grade security, but it creates an always-on scenario that dramatically improves application response time and ensures that the application is always available as the device roams between networks, hibernates, or moves in and out of coverage.

Session persistence is indispensable for government agencies and military organizations that are facing situations in which access to information can make a difference in saving lives and protecting public health and safety.

## Enabling Simultaneous Voice and Data

With Columbitech Mobile VPN deployed on a smartphone, the session persistence function allows users to simultaneously send data and receive phone calls – without the risk of data loss. This is an extremely valuable feature for most 3G users who often encounter problems when using the same device for voice and data. These networks lack support for simultaneous voice and data, causing data loss and interruptions to the application every time a phone call comes in. With Columbitech Mobile VPN, users can receive phone calls without losing data or having to reauthenticate to access the application after a call.

## Power Efficiency Saves the Battery

Columbitech Mobile VPN uses less processing power than other VPNs do and is much more energy efficient. This is essential for VPN solutions running on mobile devices with limited battery time and processing power.

## Columbitech Mobile VPN Key Features

### Military-Grade Security

- Validated by NIST and FIPS 140-2 certified
- Multifactor authentication
- Supports CAC, biometrics, RSA SecureID, etc.
- Integrity monitoring (SHA-1)
- Up to 256-bit AES encryption
- NAC enforces compliance with the organization's security policy

### Optimized for Wireless Access

- True session persistence
- Enables simultaneous voice and data over 2G and CDMA networks
- Seamless roaming among 3G, WiMAX, Wi-Fi, Satellite, and Ethernet
- Advanced data compression
- Small memory footprint (from 70 kB)
- Low CPU usage with minimal impact on battery life
- Application transparent
- Supports single sign-on using the Windows login credentials

### Centralized Management

- Centralized management of multiple VPN servers
- Automated reporting tool tracks all activities, and log files can be pulled on demand
- Role-based access that can be defined on individual and user-group level
- Central cost control mechanisms

### Cost-Efficient and Highly Scalable

- Low initial investment
- Software based and cost-efficient to deploy, maintain, and support
- Scalable up to more than 5,000 concurrent sessions and 100,000-plus clients with multiple servers



# Trusted by the U.S. Military and Government

Furthermore, the software has a small footprint and does not take valuable memory space from other applications. Advanced data compression provides better performance over all networks as well as lower data fees.

## Policy Management Tool for Central Control

Via the centralized policy management tool, administrators have the ability to define user policies and access rights on an individual or user-group level. This tool also allows administrators to control and manage costs. Policies are defined centrally and are automatically pushed out to the wireless devices.

## Cost-Efficient to Install, Maintain, and Support

The Columbitech solution is software based, saving significant money on the initial investment, maintenance, and support. The VPN server does not require any extra hardware and can be installed on existing Windows 2000/2003 or Linux servers. The software is highly scalable and supports up to 5,000 concurrent sessions and 100,000-plus clients with multiple servers.

Additionally, the support for session persistence dramatically reduces the number of help desk calls related to connectivity issues, thus saving cost compared to a traditional VPN.

## Tested and Hardened Technology

Today, Columbitech's Mobile VPN is deployed on more than two million devices and is hard at work providing remote access to mission-critical information for local government and all branches of the U.S. military: Army, Navy, Air Force, Marines. In fact, Columbitech has been chosen by NASA, SPAWAR, the National Guard, and NEXCOM.

## Supported Platforms

### Client support:

Windows 2000 Professional  
Windows XP Professional  
Windows Vista Professional  
Windows Mobile 2002, 2003, 5.0, and 6  
Windows CE 3.0, CE 4.X, CE 5.X  
Symbian 9.1  
MS-DOS and DR-DOS  
Embedded systems

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

### Server support:

Windows 2000/2003  
Linux (kernel 2.6.8 or higher)

### Network support:

Ethernet (*fixed*)  
Wi-Fi (*private and public*)  
Mesh networks  
Cellular networks (*WiMAX, 3G, EDGE, GPRS, EV-DO, HSDPA, and CDMA*)  
Dial-up  
Satellite



## Columbitech Contact Details:

### North America Columbitech, Inc.

11 Penn Plaza, 5th floor  
New York, NY 10001, USA  
Phone: 212.946.4820

### EMEA Columbitech AB

Maria Bangata 4A  
100 64 Stockholm, Sweden  
Phone: +46 8 556 08 100

**COLUMBITECH**