



Radio IP® Mobile VPN

Security Solutions

Secure data transmission over multiple wireless networks with Radio IP Software solutions.

Take Your VPN On The Road!

Get the security of a VPN with Encryption, Encapsulation and User Authentication plus all the advantages of Radio IP wireless technology.

Overcome the limitations of off-the-shelf VPN solutions made for wired networks with Radio IP patent-pending Optimized TCP/IP technology. Radio IP specializes in wireless network solutions and can make any mobile data network efficient, flexible and easy to use and administer.

Radio IP Mobile TCP/IP Gateway™ gives you:

- Automatic VPN Connection
- User Authentication
- Triple DES, AES Encryption
- FIPS 140-2 Certified Technology
- Secure Data Encapsulated Transport
- Concatenated Compression
- Improved Throughput
- Static IP Addressing
- Auto-Reconnect
- Application Persistence
- Session Persistence
- Data Buffering
- Expanded Network Coverage
- Standby Redundancy
- Legacy Application Migration

Roam Where You Want To.

With RadioRoam® you can automatically switch between the combination of networks that are right for you, under administrator set criteria. Whether you use public or private networks, or a combination, roaming with a VPN has never been easier. Over 1xRTT, 802.11x, GPRS, DataTAC, EDACS, Dataradio and more, Radio IP has your solution.

Get In The Driver's Seat.

Radio IP gives you control. Our administrative options allow you to define your mobile network your way. And with easy set-up and installation of a single solution, there's no need for a separate VPN. Seamless, transparent and background mobile functionality reduces the technology burden on mobile users, allowing them to be more productive and reducing IT support costs.

VPN 101:

Virtual Private Networks were designed for the wired world as an inexpensive alternative to securely send data using the public infrastructure rather than through costly leased and owned lines. Key to this technology is tunneling, which encapsulates private data within a public network transmission. Encapsulation, however, is not meant to replace encryption. Where high-level security is essential, as in Public Safety, a VPN must include encryption within the tunnel. Another layer of security is added by ensuring the network has user authentication.

[More...](#)

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Technical Overview

Remote User Authentication

- User authentication through Windows Active Directory.

Secure Private Data Transmission

- Step 1: Compression
 - Radio IP Mobile TCP/IP Gateway™ uses a mathematical compression engine that uses a historical data library for compression.
 - The data can only be read when the exact history generated by this engine is received with it. No other method can read the data.
- Step 2: Encryption
 - The whole payload is encrypted with Triple DES or AES encryption, using FIPS 140-2 certified technology.
- Step 3: Encapsulation
 - The data is encapsulated in the Radio IP Optimized TCP/IP tunnel.
 - Optimized TCP/IP is a patent-pending Radio IP technology that is more efficient than the standard TCP/IP protocol.
 - An outside source would need a thorough understanding of this highly guarded and unpublished protocol in order to read the data.

Verification of Unaltered Data

- Upon receipt, the data is validated, decapsulated, decrypted, and decompressed completing the secure data transmission process.

Server-side OS:

Windows NT, 2000, 2003

Client-side OS:

Windows 2000, XP

Windows CE for Pocket PC

