



Radio IP Shadoport™

Supercharge Your Wireless Network and Security For FLM Applications

Get Information Up To 3 Times Faster!

- In Public Safety, faster access to dispatch or NCIC information in the field can be a matter of life or death.
- With Radio IP Shadoport, legacy FLM applications communicate up to 3 times faster over a DataTAC network and can achieve a 75% rate of compression, supercharging your wireless network.

Meet Government Encryption Requirements.

- FLM applications do not meet government security requirements. Beware! Some states have enacted deadlines for encryption compliance.
- With Radio IP Shadoport, your legacy FLM applications are encrypted with FIPS 140-2 and 140-1 certified technology, using 3DES, DES, AES, RSA, SHA-1, and HMAC-SHA-1 encryption.

Easily Integrate TCP/IP Applications and FLM Software

With Radio IP Shadoport and Radio IP Mobile TCP/IP Gateway™

- Keep the application that your people in the field know and trust.
 - A cost-effective alternative to ripping out your existing FLM software and starting over.
 - No re-training personnel on a “replacement” application and reduced burden on IT support.
 - An easy, flexible migration to TCP/IP integration. Project acceptance is higher and the technology risk is lower.
- Add new TCP/IP applications.
 - The newest, fastest, cutting-edge software is now within your reach.
 - Leverage your existing Motorola infrastructure with the power and flexibility of Radio IP Mobile TCP/IP Gateway to give you fully optimized TCP/IP connectivity.
 - Get all the other benefits of Radio IP Mobile TCP/IP Gateway including extended network coverage, user authentication, application persistence, auto-reconnect and more!

Product Sheet

Motorola® Network Solutions

FLM 101

Formatted Logical Messaging is Motorola's proprietary protocol for communication over a DataTAC network. Applications that are based on the FLM protocol include TxMessenger™.

[More...](#)

Radio IP Shadoport™

Technical Overview

We've Overcome The Barriers To TCP/IP – FLM Integration

1. FLM applications monopolize the communication port making it impossible for two or more applications to run concurrently on the mobile computer and communicate wirelessly.
 - On the mobile computer, the FLM based legacy application communicates through the Radio IP Shadoport software instead of the physical COM port connected to the VRM. Radio IP Shadoport creates a virtual COM1 or COM2 connection that satisfies the legacy application's need for an entire COM port.
2. FLM is not encrypted or compressed resulting in slow data throughput, a higher network load and non-compliance with government security standards.
 - Radio IP Shadoport handles encryption and compression at the mobile computer and the server. In the field, Radio IP Shadoport mobile compresses, encrypts and encapsulates the data, sending the packets to the RNC. The RNC directs the data to the communications server where Radio IP Shadoport server resides. The data is then decrypted and decompressed, extracted and reassembled back into FLM protocol so that it can communicate with the legacy application server.
3. TCP/IP is not compatible with the FLM protocol making it impossible to run TCP/IP applications over a DataTAC network.

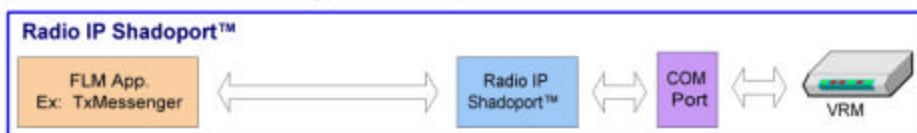
Radio IP Mobile TCP/IP Gateway (MTG) enables TCP/IP applications in the field to run over Motorola networks. When installed with Radio IP Shadoport, legacy and TCP/IP applications can run concurrently.

Server Requirements:

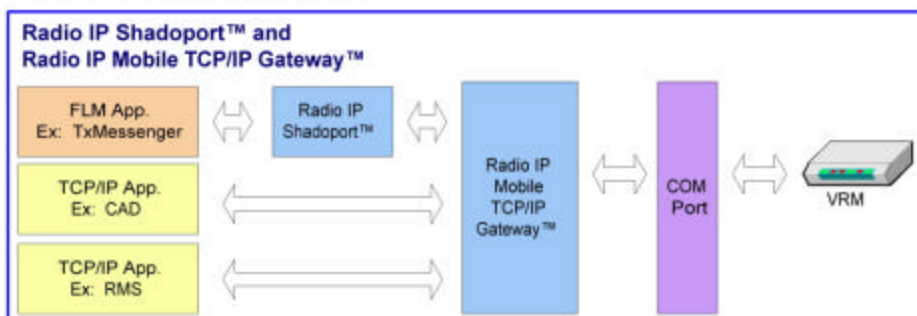
Radio IP Shadoport may share an existing server with other applications, provided it has the following:

- 1 GHz Intel-Pentium III
- Min. 512 MB RAM
- Windows NT 4.0, 2000, 2003
- 10 GB hard disk
- TCP/IP Ethernet card

FLM Optimization with Encryption & Compression



TCP/IP - FLM Integration Solution



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