

SysCom

"Tactical e-mail" System for Data Communication over Radios

Make Your
Radio Sets
"DO MORE"

Overview

SysCom is a tactical e-mail system which allows users to send and receive e-mail messages while on the move. Users can retrieve the messages lying in their electronic mailboxes in the office from the tactical terminal fitted in the mobile vehicle, and can also send new messages, site pictures (as standard file attachments), etc., from their mobile locations back to anywhere on their organizational network (or even the internet).

The backbone of this solution is a software which delivers data capability to your HF/VHF/UHF sets, thereby making your vast radio assets "do more" than just serve as a medium for sending verbal messages.

The user can use mobile PCs to send text messages to other mobile and fixed users in the organisation, as also to send and receive Image as well as text files, including pictures.

Syscom addresses the limitations of 'Verbal Telephony' system. It provides digitized information to the user that can be used by other electronic systems.

The software is compatible with most available radio sets being used by law enforcement agencies.

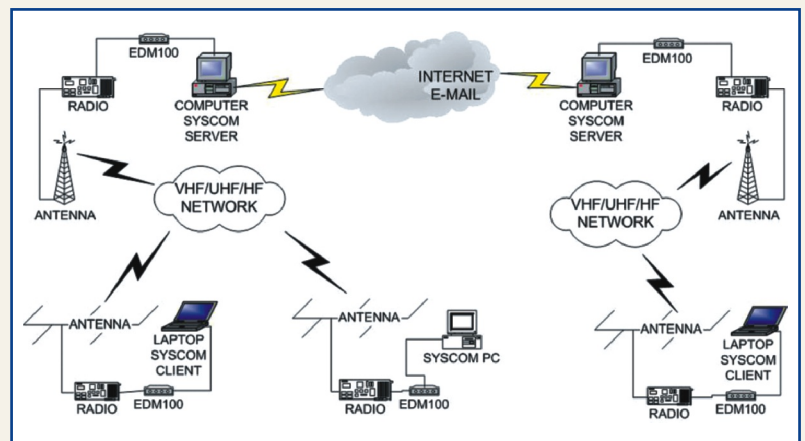
Deployment & Operation

All the sites that are part of the SysCom Network shall carry the following:

- a Radio Set
- an EDM 100 (Modem)
- a PC loaded with SysCom Software

How the System Works:

- The user starts the SysCom software and logs in with his user name and password
- The user can connect to any station and start a session
- User can also send files to any station(s)
- A message can be composed offline, and then sent to another user later after connecting
- Messages can also be sent outside the network (say, to the Internet) using the SysCom Internet mail Gateway
- SysCom makes possible a highly scalable modular network, with ability to configure and choose components according to requirement



Advantages

e-mail on the move

SysCom brings the Internet/intranet e-mail facility right down to your remote location. The SysCom server at the central site with Internet connectivity acts as an Internet mail Gateway and provides e-mail facility to other wireless SysCom clients/servers located in the remote areas over VHF/UHF/HF networks. The result is a fully MIME compliant messaging solution over a highly secure channel.

Gives you a "Tactical Advantage"

SysCom delivers a tactical advantage to the user. For example, picture of a suspect can be broadcast/multicast to several locations immediately. The information received from field locations in digital format can be used for faster and judicious decision making by integrating it with other MIS platforms.

Extends the Reach of your "data" network

SysCom extends the reach of the network. Sitting at one location, it is possible to send information to mobile and remote parties.

Overcomes limitations of the Verbal Talk

Proof of messages sent is available thus eliminating the chances of error. Also ensures greater Operator compliance.

A Secure way of communication

In today's scenario where the criminal is increasingly becoming more equipped, security of your communication is of utmost importance. The SysCom system comes with an encryption option. Under this option, your entire communication is encrypted with an indigenous encryption algorithm "Agamya," which is a secret-key symmetric-encryption algorithm with a best-in-class cryptographic strength. Agamya employs modern symmetric-block cipher techniques and uses variable length key of upto 576 bits (or eighteen 32-bit words) to encrypt data "on the fly" as it passes through the wireless channel, making the data transmission secure. The key management is through an encrypted key store providing an additional layer of security.

Important Features

- Facility to send images (including pictures), document files and conduct chat sessions
- Message transmitted indication with time stamp
- Upto 576-bit key for high level of encryption
- Secure store for effective key management
- Provision to send predefined messages
- Unicast, broadcast and multicast messages
- Session Save facility
- Auto compression and Decompression
- Inbuilt crash recovery
- Tools to configure the connected TNC (Terminal Node Controller)
- Online context-sensitive help
- Message Management System
- Can be run on a Laptop as well as handheld PC
- Capable of sending/receiving email messages from Internet
- Comprehensive Reporting

For further information, contact :

