**SECURING
ELECTRONIC
INFORMATION
COMMUNICATION**

MICROSECURE
C O R P O R A T I O N

MS4 Secure Wireless Communication Systems

Integrated Communications Systems

Market Segment - Defence, Government & Homeland Security

Mobile, Flexible and Scalable Solutions

Abstract

Wireless technologies are now a major part of many commercial organisations networking infrastructure. The benefits of cost efficiency, flexibility and rapid deployment have been utilised on mass for many years. These benefits have also been identified by many government and defence organisations looking at expanding their current capabilities. The introduction of this technology in government and defence applications however has been stifled by a lack of appropriate data security and equipment suitably designed for the user's requirements.

Microsecure Corporation, utilising Harris Corporation SecNet 11 Plus equipment, has developed MS4 product solutions to provide up to Secret level, mobile and flexible, wireless local and wide area networking communication systems. Microsecure understands that every organization has their own requirements and our tailored solutions allow with the flick of a switch instant secure wireless communications to suit the needs of the user.
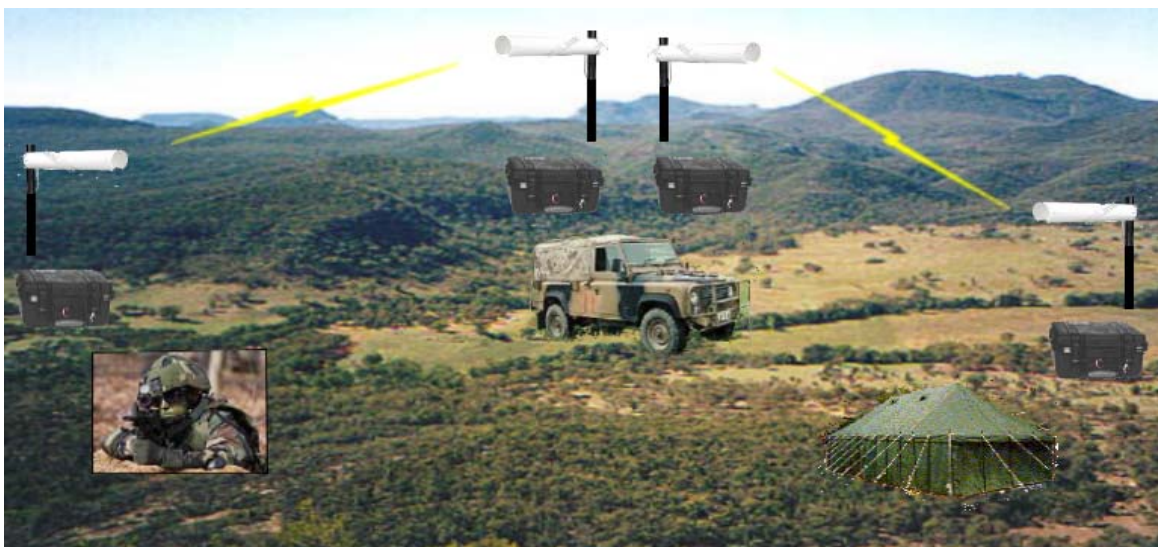
SecNet 11 Overview

"The SecNet 11 PlusPC card provides secure communication by encrypting the data (COMSEC) as well as the source and destination addresses (NETSEC), preventing traffic analysis on transmitted data." The technology utilised by the SecNet 11 PC card means that unlike traditional 802.11b wireless communications which can be intercepted and then attacked, SecNet 11 transmissions are cloaked preventing interception.

MS4 Secure Wireless Solutions

Microsecure Corporation has extensively prepared applications to provide Secure wireless local and wide area networking communication systems to enhance information systems , intelligence gathering and surveillance systems that utilize data, VoIP and video. By integrating existing technologies MS4 products provide tailored options to meet the secure communication requirements of both government and defence users.

Mobility is one of the keys to any successful Operation undertaken by both defence and government agencies. Microsecure Corporation has based its MS4 solutions on the ability to be highly mobile to facilitate rapid deployment. Microsecure solutions allow users to be able to deploy a Secure wireless LAN in minutes.

Microsecure Corporation MS4 products are also extremely flexible, allowing the equipment to be used in a variety of roles, from defence, police, government intelligence and homeland security applications. Microsecures MS4 equipment can be utilized in wireless local and wide area networks, surveillance systems, camera networks, sensor networks and wireless equipment control functions, ensuring all data, video and control functions are secured from unauthorised access.

Current Defence Solutions

Microsecure Corporation is currently in contract with the Special Operations Command Australia, delivering MS4 products to provide secure wireless information system solutions to meet the diverse communication challenges faced by Australia's Special Forces.

Some of the capabilities which MS4 products are providing the Special Operations Command include:

- The ability to establish Secure long range remote monitored camera/sensor networks at distances up 35km,
- Secure short range remote monitored camera/sensor networks with up to 10 cameras linked to a single access point,
- Secure long range Point to Point data communication links at distances up to 50km,
- Secure long range Point to Multi Point data communication links at distances up to 35km,
- Secure long range repeater links enabling data communication ranges up to 150km,
- Mobile Secure wireless data communications utilising a variety of platforms including vehicles and watercraft. Allowing platform to platform communications or platform to base station communications
- Secure wireless LAN capabilities.

Future Developments

Microsecure Corporation is also developing products to provide:

- Compact remote monitored camera/sensor networks with communication ranges up to 5km,
- Ground to air repeater systems to utilise a variety of airframes and
- Long range communication systems to provide navel vessels the ability to communicate with each other whilst out to sea and also with shore elements.
- Microsecure via Harris Corporation has under application it's second Technical Assistance Agreement (DDTC/ITARS) for the next generation SWLAN equipment providing NSA approved Top Secret Communications

Doctrine and Certifications

SecNet 11 Secure Wireless LAN products have had the following Doctrine and Certifications issued for its use:

- ACSI-133 COMSEC Doctrine for SecNet 11–Wireless LAN interface Card (Issued by DSD Aust)
- SIPERNE Connectivity   - IATO approval for USJFCOM
                                     - IATO approval for NGA in Iraq
                                     - IATO approval for Coronado tests
- US Navy certified SecNet11 for use onboard submarines (HERO, HERP, HERF) in June 2003
- NATO SECAN certified SecNet11 to protect NATO data up to secret
- NSA officially certified SecNet11 PC for data protection up to Secret level on October 28th 2002

Conclusion

Microsecure Corporations MS4 product solutions, utilizing SecNet 11 provide mobile and flexible secure wireless data communications for users wanting to gain the advantages and benefits that are provided with IEEE 802.11b wireless equipment. The ability of the equipment to be utilised over a broad range of applications such as data transfer, video streaming, remote sensor monitoring and equipment control provides defence and government agencies with a cost effective product that can be tailored to the users individual requirements.

About Microsecure Corporation

Microsecure Corporation based in Melbourne, Australia represents over 30 years of knowledge and expertise in information systems security for government, defence and commercial industry. Microsecure consult, design, develop and support leading edge information technology security products and services. Microsecure provide integrated total security solutions ITSS for information and communication systems.

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