



# Secure Communications in the palm of your hand.

SecureGSM™ is designed to combat eavesdropping and interception by providing Military Grade security for your confidential mobile phone conversations and messaging.

SecureGSM™ is the first software-only solution designed to provide truly secure communication on Microsoft Windows Mobile enabled Communicators and Smartphones without affecting their original functionality.

SecureGSM™ is built on our SecuStream™ technology and is a WORLD FIRST product of its type to run natively on Windows Mobile Phone Enabled devices.



# What is SecureGSM™



SecureGSM™ allows two parties to conduct secure voice conversations and send secure messages over existing mobile telephone networks effectively eliminating the chance of a third party eavesdropping on the conversation.

SecureGSM™ encrypts the phone call in both directions, end-to-end, to Military Grade encryption standards and beyond. On connection between parties, SecureGSM™ uses strict verification procedures to ensure the identity of calling parties, backed up by widely endorsed encryption technologies.

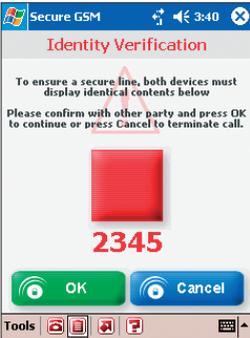
## Unique feature set

- Easy operation and user interface – no security or technical knowledge required by user.
- Completely real-time, full-duplex operation. Works just like a regular mobile phone.
- Automatic and immediate on-the-fly encryption of voice and messaging without any need for user interaction.
- Unique language-independent party verification.
- Simultaneous secure voice and secure messaging.
- Confirmation routines clearly identify sent, received and non-deliverable messages.
- Voice Engine specifically optimised for operation in noisy environments.
- Excellent voice quality – comparable to standard mobile communication.
- Works on standard data call enabled networks (CSD).
- Completely secure – no security data is stored on the device at any time.
- No user intervention required for security procedures to take place.
- Low processor requirements (as low as 150MHz).



# Robust Security

SecureGSM™ features robust, 256 bit, triple cipher, layered encryption based on AES, Twofish and Serpent ciphers. Any one of these encryption algorithms is considered unbreakable by today's standards and the triple layer ensures that encrypted data is future proof.



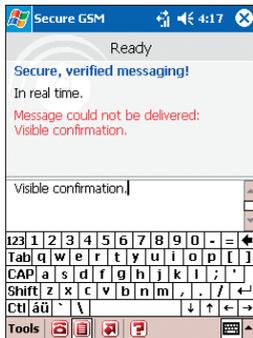
If any one of the encryption algorithms is broken, or found flawed in the future, it is not possible to obtain data to decrypt or compromise the remaining layers or chains.

SecureGSM™ hosts a unique asymmetric key generation engine, which is hardware optimised for extremely fast key generation. Private and public keys are generated per session and subsequently destroyed (unrecoverable) upon termination of link.

A 4Kbit public key infrastructure based on the widely endorsed Diffie-Hellman algorithm ensures encrypted data is safe and secure.

Calling party identity verification procedures are implemented as protection from “man in the middle” attacks with our unique Identity Verification Module as well as comprehensive procedures to ensure keys or foreign data have not been injected or substituted by a third party.

- Robust, optimised algorithms for key operations such as Identity verification, Random Number Generation, Digest functions, Key Exchange and Encryption.
- Unique Program Monitor module specifically monitors the operating system for the presence and status of the SecureGSM™ program process.
- Works on Windows Mobile phone enabled devices without modifying, or impeding any other functionality.
- Full Unicode support.



## Security Checklist

**⚠ Mobile Phone communications are easily intercepted by readily available devices.**

*SecureGSM™ prevents access to calls by encrypting the conversation to Military Grade standards.*

**⚠ Mobile Phone communications are susceptible to “eavesdropping” and “man-in-the-middle” attacks.**

*SecureGSM™ prevents “man-in-the-middle” attacks through extensive security procedures and a unique Identity Verification module.*

**⚠ You need SecureGSM™ if you are in:**

*Security & enforcement agencies, Government departments, Banks and financial institutions, Corporate business and manufacturing community, R&D industries, Stock and Trade exchanges, Banking, Legal and Accounting firms, Medical Services.*



[www.securegsm.com](http://www.securegsm.com)

**SecureGSM**

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