



Cellcrypt Mobile for iPhone

Speak with confidence on your cell phone

Cellcrypt Mobile™ for iPhone® makes your voice calls private and secure, so you can speak with confidence, wherever you are.

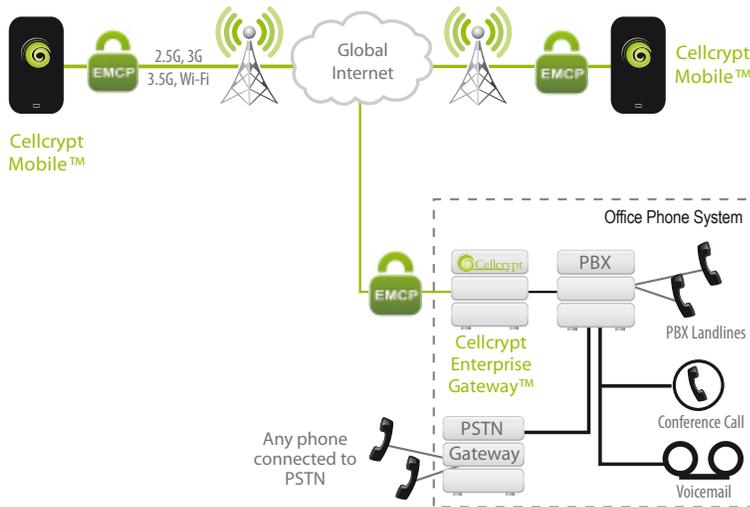
Protecting Valuable Information

Organizations make significant efforts to protect their valuable data from loss or interception – particularly when accessed outside the office and traveling abroad.

In 2010 the cost of cell phone interception is significantly reduced since hackers computed and published free on the internet a codebook to decrypt GSM calls¹ – used in 80% of cell phones worldwide – as well as demonstrating interception equipment that is readily available for under \$2,000².

With Cellcrypt, calls can easily be protected on popular cell phones – and securely connected to office phone systems – so that you can be assured conversations remain confidential wherever they are.

End-to-end security on everyday cell phones



Speak With Confidence

Cellcrypt Mobile for iPhone is an easy-to-use, next generation software solution that uses the data network to serve up unparalleled voice quality, low voice delays (latency), global coverage and intercontinental call capability - all delivered securely.

Using Cellcrypt Mobile is as easy as making a normal call, yet provides the confidence that phone calls, whether in the mobile or office environment, at home or overseas, within or between departments, suppliers and business partners, are protected end-to-end.

Security is assured; Cellcrypt uses the same well-established and trusted encryption technologies to protect voice communications that are used to protect laptops, corporate data and financial services transactions.

Key Features

- Security**
 - Strong end-to-end encryption
 - US Government FIPS 140-2 validated (cert number 1310)
- Simplicity**
 - User-installable application that runs on iPhone
 - No specialist equipment required
 - Intuitive user experience, runs in background & integrates with device phonebook
- Performance**
 - Interoperates across and between leading smartphones and cellular networks
 - High call quality with low latency
 - Operates on all data-capable wireless networks
 - International calling in over 200 countries
 - Secure calling to landlines with Cellcrypt Enterprise Gateway™
- Network Support**
 - Any IP-enabled network, e.g.
 - GSM/CDMA
 - 2G
 - 3G
 - 4G
 - Satellite
 - Wi-Fi™



Cellcrypt's Technology

Cellcrypt's advanced solution leads the industry in delivering multi-layered security to establish a high-performance encrypted voice call between trusted wireless devices. It utilizes Encrypted Mobile Content Protocol (EMCP), a set of standards-based protocols for optimizing delivery of encrypted real-time content between cell phones over low-bandwidth wireless networks. Cellcrypt's products are certified to the FIPS 140-2 standard, approved by the US National Institute of Standards & Technology (NIST).

Cryptography & Random Number Generation

Public Cryptography

(2048-bit RSA & ECDSA using curves with 384-bit prime moduli)

RSA and ECDSA are used for authentication. The key pairs are generated on the phone during the installation and are unique to each phone. A private key is never shared. The Elliptic Curve Diffie-Hellman (ECDH) and RSA algorithms are used for key exchange. The session key is only valid for one phone call and securely destroyed after use.

Symmetric Cryptography

(AES & RC4, both 256 bits)

Both encryption algorithms are used at the same time. The data packet is first encrypted with RC4 and the cipher text is then encrypted again with AES in Counter Mode (CTR). Both algorithms are initialized with the exchanged session key.

Hashing Algorithms

(SHA512, MD5)

Two industry standard hashing algorithms are used for increased integrity assurance.

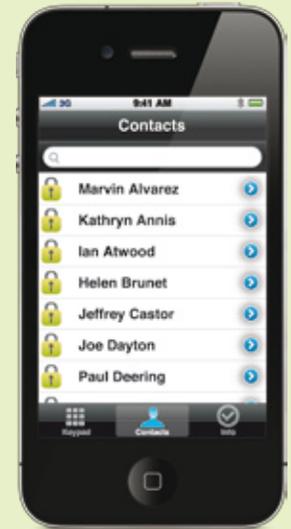
Random Number Generation

A 2048 bit seed pool is generated during the installation and is periodically updated. The initial seed is derived from the microphone input.

About Cellcrypt

Cellcrypt is the leading provider of encrypted voice calling on cell phones. Founded in 2005 to develop high security encryption solutions for mobile devices, it developed Encrypted Mobile Content Protocol (EMCP) to solve performance challenges in the industry. EMCP is a standards-based technology that uses IP (internet protocol) to provide optimized delivery of encrypted data.

Today, Cellcrypt solutions are used routinely by governments, enterprises and senior-level executives worldwide. Cellcrypt is a privately-held, venture-backed company with headquarters in London, UK and offices in USA and Middle East.



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