



## CRYPTOSMART MOBILE

Secure and Confidential Communications

Cryptosmart mobile makes your voice calls, SMS, Emails and data secure, so you can communicate with confidence, wherever you are.



**smart secure**  
Securing the wireless world



## ***Cryptosmart Card Solution***

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### **THE GROUP**

#### **About ERCOM**

Ercom is the company that developed the Cryptosmart card solution. It is the leading company in the development of government-grade voice-call encryption; it is ranked as the top1 encryption company in Europe.

#### **About 3SI**

Strategic Security Systems International (3SI) - founded in 1997- is the leading provider of secure mobile communication platform across all major mobile devices.

#### **About Scope for IT Services**

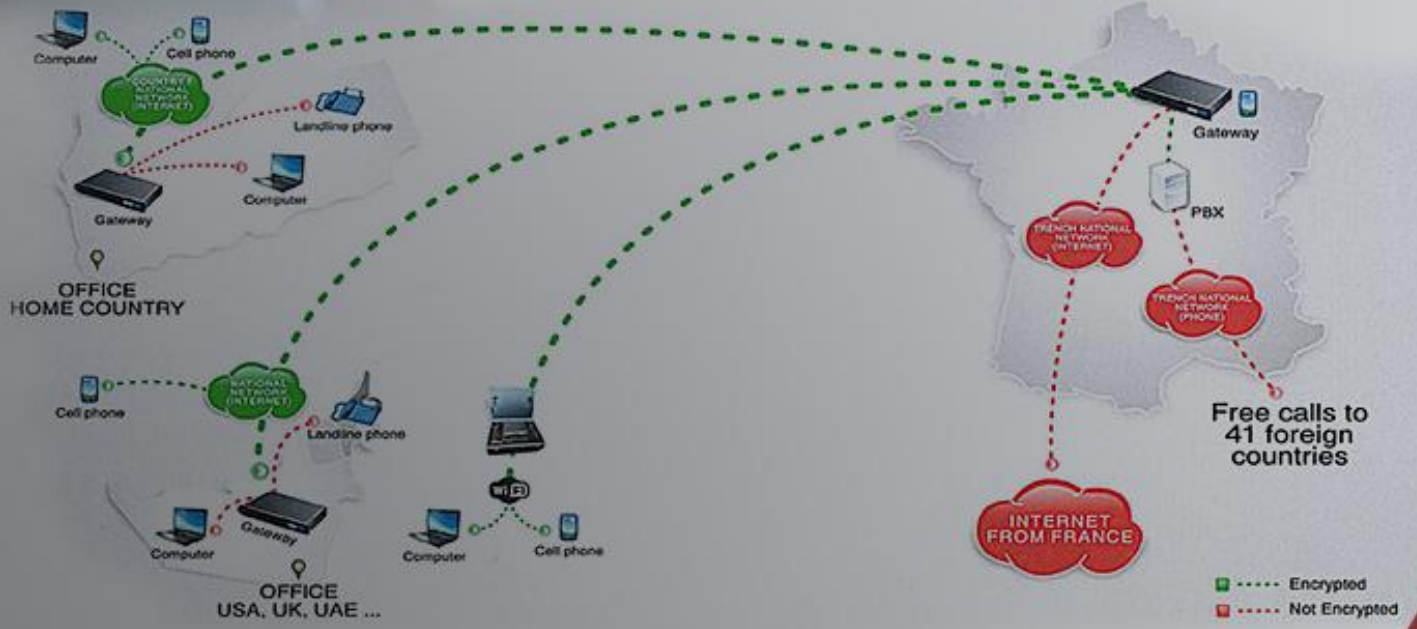
Scope for IT Services is a Lebanese firm that offers all kinds of IT services, including software development, network audit, and security consultancy. Scope for IT Services represents 3SI in Lebanon.



## Overview

Cryptosmart is an IP-based technology that optimizes delivery of encrypted data between mobile devices over wireless networks. 3SI solves the technical challenge of delivering reliable high-performance encryption of voice data and SMS over networks with low bandwidth and varying connectivity. In addition, to secure voice call and SMS, the Cryptosmart solution provides the ability to encrypt your device and browse the internet in an iron-clad secure and private way.

Cryptosmart technology operates over data-enabled networks including GPRS/EDGE (2G), CDMA/EV-DO (3G), 4G, Wi-Fi and satellite, and is optimized to run on Android smartphones.



 **Features**

Most secure government-level encryption

A complex combination of latest encryption technologies like Diffie Hellman, AES and RSA in addition to several hashing algorithms.

New high level encryption technology using 65536 bit key.

Approved by the National Agency security Information Systems (ANSSI)  
SMART card certified EAL 5+

Encryption applet certified EAL 4+

Designed to help the French Government meet their security needs.

The first encryption for smartphones based on hardware not software.

Keys are not exchanged over the network.

Secure voice call, SMS ,email ,browsing

Safe applications access: apps are not downloaded from the local PlayStore

Secure file transfer

Phone encryption which provides a secure storage area.

Anonymous localization: Your place cannot be reached or tracked.

Anonymous calls: Your identity is totally private

Internet anonymity features: Completely anonymous online identity while surfing the internet, you cannot be reached or tracked. (Hide your IP).

When man-in-the-middle attack is detected, the system automatically notifies users

No IT infrastructure is needed (SaaS mode)

Installed without compromising the original functionality of your smart phone

The system does not require a SIM card

Landline number from either UK, USA or France provided for secure mobile devices

Free calls for 41 countries so roaming costs will be drastically reduced

Very simple-to-use devices



### ***Why is it Important?***

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Developments in technology over the recent years have led to a steep decrease of prices of interception equipment. IMSI catcher, a device for GSM interception, can be built at the cost of 1500USD <sup>+1</sup>. Thus, in all integrity, it can be said that almost anyone can afford to intercept mobile communication.

Any server through which an e-mail message passes can analyze, record, or even modify the contents of the message. Mail service providers often do the same, and we can only hope that the only purpose of this is to present context-related advertising.

Cryptosmart Card solution enables you to encrypt your mobile so you can guarantee that your voice calls, SMS and emails with other people are secure.

It is really simple to use; it is just a standard mobile phone call.

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<sup>+1</sup> At the DEF CON 18 conference in 2010, Chris Paget.



### **Military/Government-grade Cryptography**

Cryptosmart card uses encryption algorithms that are recommended for military and government secure communications, and its secret keys are never exchanged. The product has been tested by third parties and validated according several government standards.

***Challenged by 3SI, General Dynamics could not break the encryption after several months of unsuccessful attempts. (General Dynamics Corporation is an American aerospace and defense company. It is the world's fifth largest defense contractor.)***



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