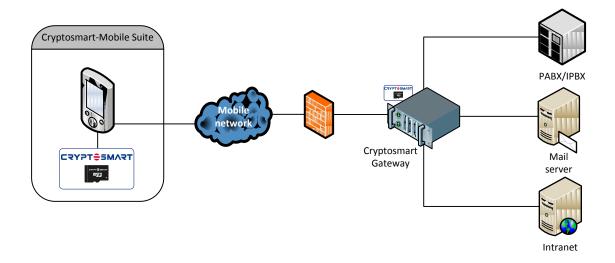


## Cryptosmart<sup>™</sup> Mobile Suite for Android<sup>™</sup>



Thanks to its extensive features, Cryptosmart-Mobile Suite prevents against all the threats mobile workers may encounter: **lost or stolen terminals, eavesdropping and intrusion on handsets**.

Cryptosmart-Mobile Suite secures mobile phones for all communications (voice, data, mail, SMS) and on all networks (GPRS, EDGE, 3G, HSDPA, LTE<sup>TM</sup>, Wi-Fi<sup>\*</sup>, Satellite, etc). It is a cost effective solution which can be deployed on the latest **Android<sup>TM</sup>** phones. It provides the first truly user-friendly secure mobile voice solution.

Cryptosmart-Mobile Suite includes a set of security software and a patented encryption technology embedded in a fully secured smartcard (EAL5+ smartcard and EAL4+ applet certified according to Common Criteria).

Moreover, it secures all data flows (emails, Intranet/Internet accesses, business applications...) and enables both encrypted-clear and encrypted-encrypted voice communications. Cryptosmart-Mobile Suite also provides strong authentication, a secure lock screen, local encryption of personal data, remote wipe and a local firewall.

USERS	INTEGRATION
<ul> <li>Covers all user security needs in a simple and coherent way</li> <li>Transparent security for mail and business applications</li> <li>Intuitive secure phone application</li> <li>Single-sign on (only one secret to know)</li> <li>Compatible with cutting-edge attractive terminals</li> <li>Remote unlocking through a secure PUK code</li> <li>Secure voice communications between users of distinct organizations</li> <li>Secure access to Intranet and Internet</li> </ul>	<ul> <li>Transport-level VPN requires a single TCP port</li> <li>NAT and port forward are fully supported</li> <li>Internal PKI for streamlined secret management</li> <li>Interoperability with enterprise PKI</li> <li>Interoperability with Exchange, Lotus<sup>®</sup> and Linux mail servers</li> </ul>

## **CUSTOMER BENEFITS**

SMART CARD	
Type of card	EAL5+ (ISO 15408) certified cryptographic chip
Cryptosmart applet	Authentication of remote cards (RSA 2048 bits/SHA 256 bits)
	<ul> <li>Negotiation of shared secrets without possible recovery (Diffie-Hellman 2048 bits)</li> </ul>
	Anonymity of exchanges (AES 256 bits)
	Protection against man-in-the-middle attack
	<ul> <li>Strict access control policy for the sensitive data stored on the card</li> </ul>
	<ul> <li>Access to RSA key by third party applications with PKCS#11 API</li> </ul>
	• EAL4+ (ISO 15408) certified
Authentication	• Use of security code (4 to 8 digits)
	<ul> <li>Attempts limited to 3, internally managed by the applet of the card</li> </ul>
	<ul> <li>Remote unlock by secure and one-time PUK codes (8 digits)</li> </ul>
PUBLIC KEY INFRASTRUCTU	IRE
Certificates	Conforms to the X.509 V3 standard
	No private extension required
РКІ	Cryptosmart-CardManager (internal PKI)
	<ul> <li>Third party PKI: Microsoft<sup>®</sup>, OpenSSL, OpenTrust<sup>®</sup>, Linagora™</li> </ul>
SECURE VOICE	
Signaling	Use of secure SIP protocol (encryption with AES 256 bits)
	Presence management
Voice	Security key negotiation between cards for each call
	Voice encryption (AES 256 bits)
	Erasing of security keys at the end of the communication
Inter-groups	End-to-end secure communication between users of different Cryptosmart-Gateways
	Relationship establishment between gateways is managed by administrators
SECURE SMS	
SMS encryption	Payload encryption (AES 256 bits)
	Encryption key renewal per SMS
SECURE DATA FLOW	
Session management	Security key negotiation between smart cards
	Erasing of security keys at the end of each session
Security	TCP and UDP traffics encrypted and secured with AES 256 and SHA 256
Filtering	Individual management of accesses to internal applications
LOCAL SECURITY	
Integrity	Anti-rooting
0 /	Anti-trapping
Remote terminal erasing	Terminal erasing on invalid security or PUK codes
	<ul> <li>Administrator can send a one-time secret to the terminal for full erasing</li> </ul>
Single Sign On	GSM Pin code stored in the secure part of the smart card
	<ul> <li>Access only through Cryptosmart secure code</li> </ul>
Local encryption	<ul> <li>User's data (files, emails, contacts, calendar) encryption (AES 256 bits)</li> </ul>
	<ul> <li>Storage of master encryption key in the smart card</li> </ul>
Firewall	Protection of communication physical ports
	<ul> <li>Filtering of incoming and outgoing TCP connections</li> </ul>
WAN/LAN ACCESS	
Connection	TCP/IP, UDP/IP
	<ul> <li>Compatible with all wireless networks supporting IP over 10 kbps</li> </ul>
Applications	<ul> <li>Interoperable with enterprise applications: email, business applications</li> </ul>
MANAGEMENT AND ADMI	
Device management	Creation and deployment of configurations using the Cryptosmart-Gateway
Device management	<ul> <li>Security policies broadcast and enforcement</li> </ul>
	<ul> <li>Inventory of terminals on the Cryptosmart-Gateway</li> </ul>
	<ul> <li>Activity monitoring (calls, logs, battery, memory, localization) centralized on the</li> </ul>
	Activity monitoring (cans, logs, battery, memory, localization) centralized on the Cryptosmart-Gateway
Secure administration of	Done through the Cryptosmart-CardManager
the cards	
DEVICES	
Operating system	<ul> <li>Android<sup>™</sup> V4.2 and upper (list of the supported devices available on demand)</li> </ul>