

Connected Applications Secure mobile devices

Your Secure mobile phone provider:

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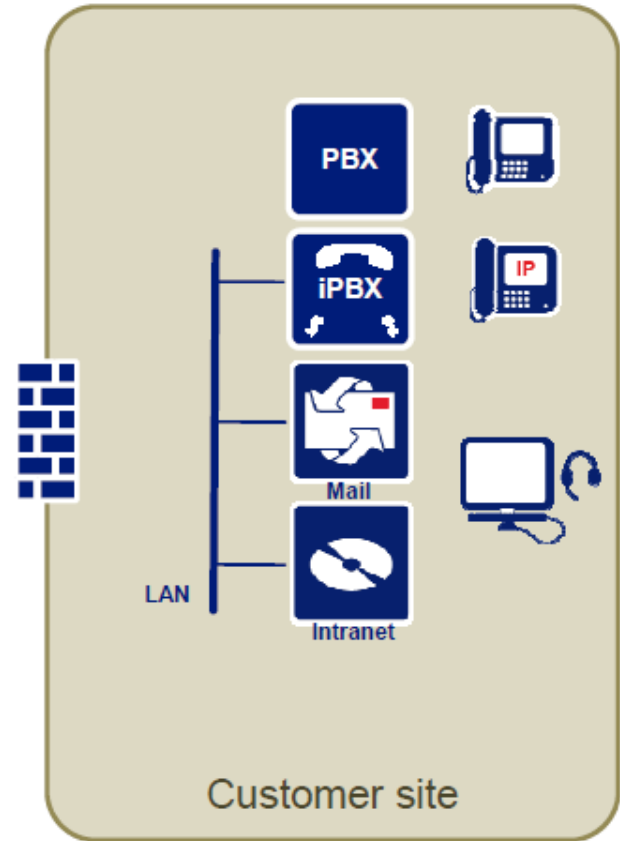
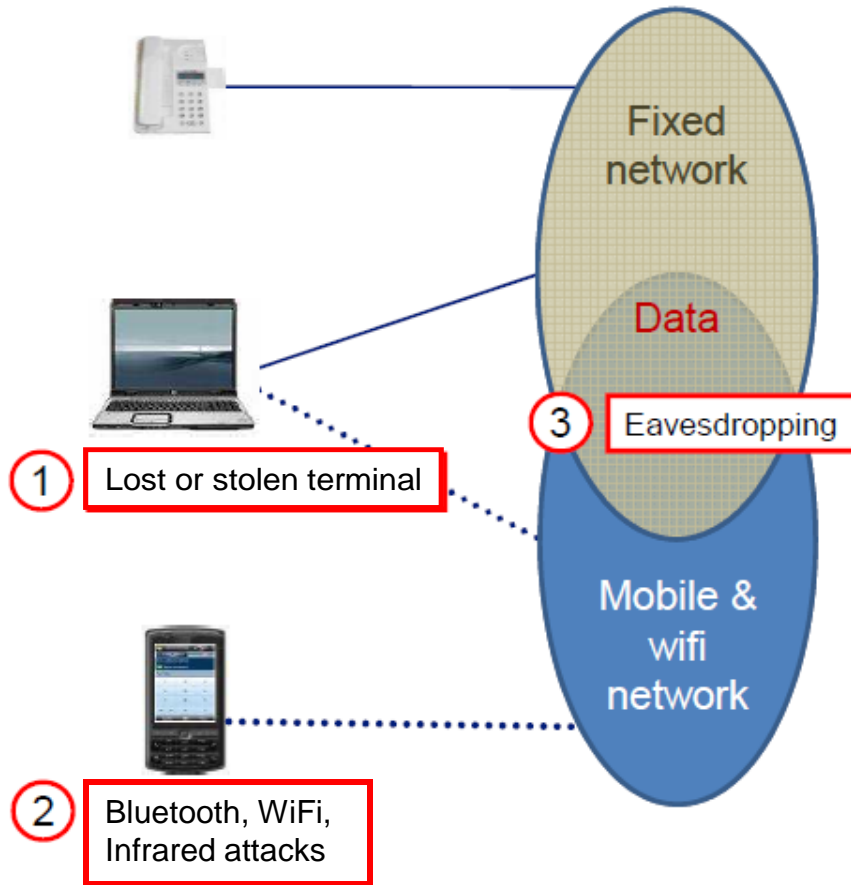


Connected Applications

Secure mobile phone

Threats

Mobility : 3 types of threat



The answer to mobility threats

THREATS

Lost or stole terminals

Interception and eavesdropping

Network attack and terminal intrusion

SOLUTION

- Local encryption
- Screen lock with security code
- Remote wipe

- Data flow encryption (VPN)
- Voice flow encryption
- SMS encryption
- Strong authentication

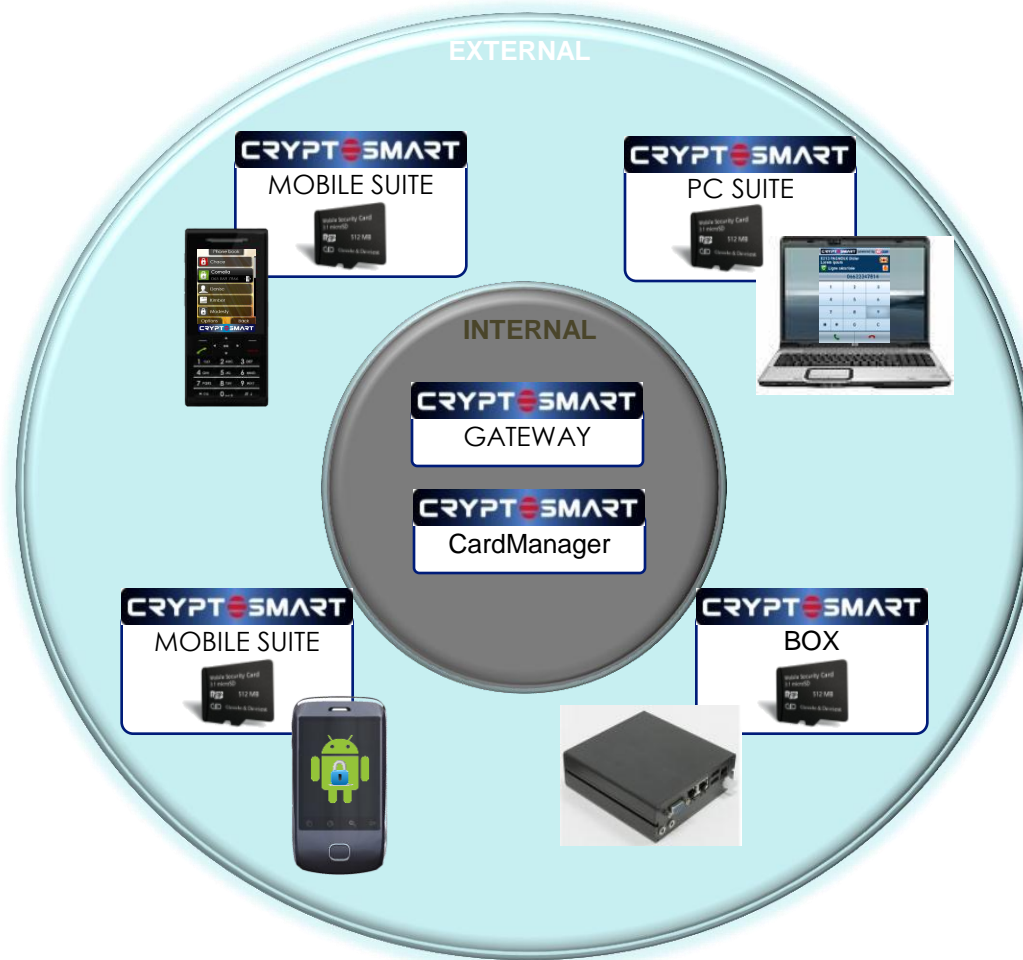
- Network firewall
- Control of every radio or wired access



Connected Applications Secure mobile phone

Cryptosmart : secure convergent solution

One technology for all external needs and ...



A technology based on smart cards for best in class security solution

... for all networks



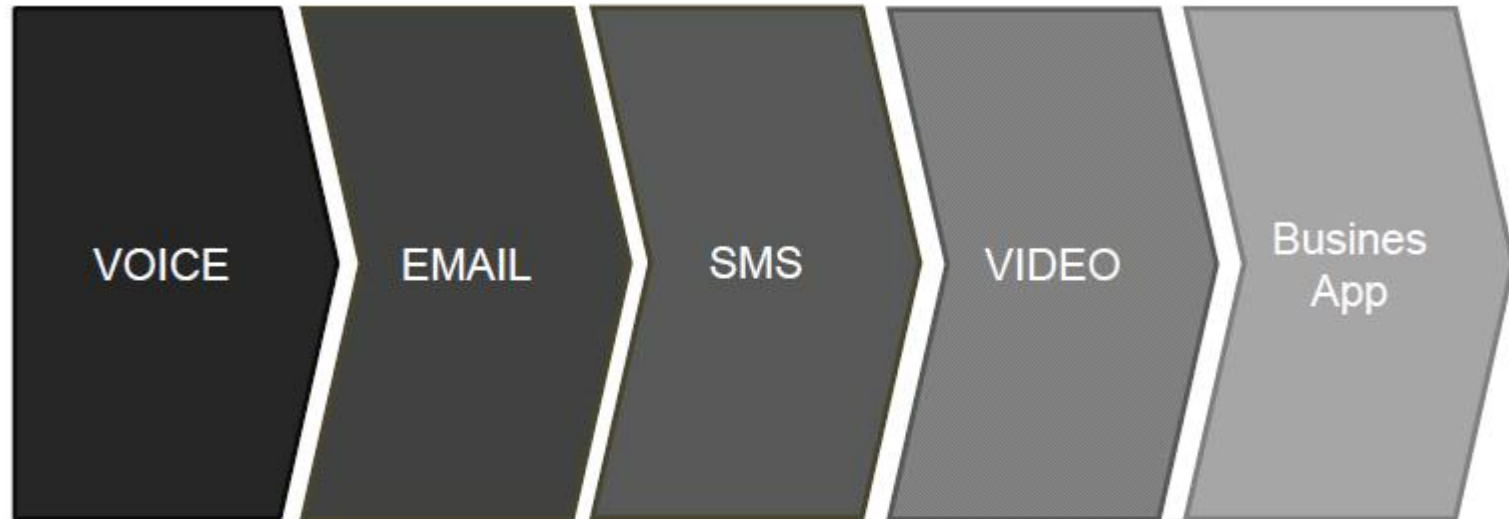
MOBILES
(GSM, GPRS, EDGE, UMTS,
HSDPA, HSPA)

WIRELESS
(Wifi, Wimax)

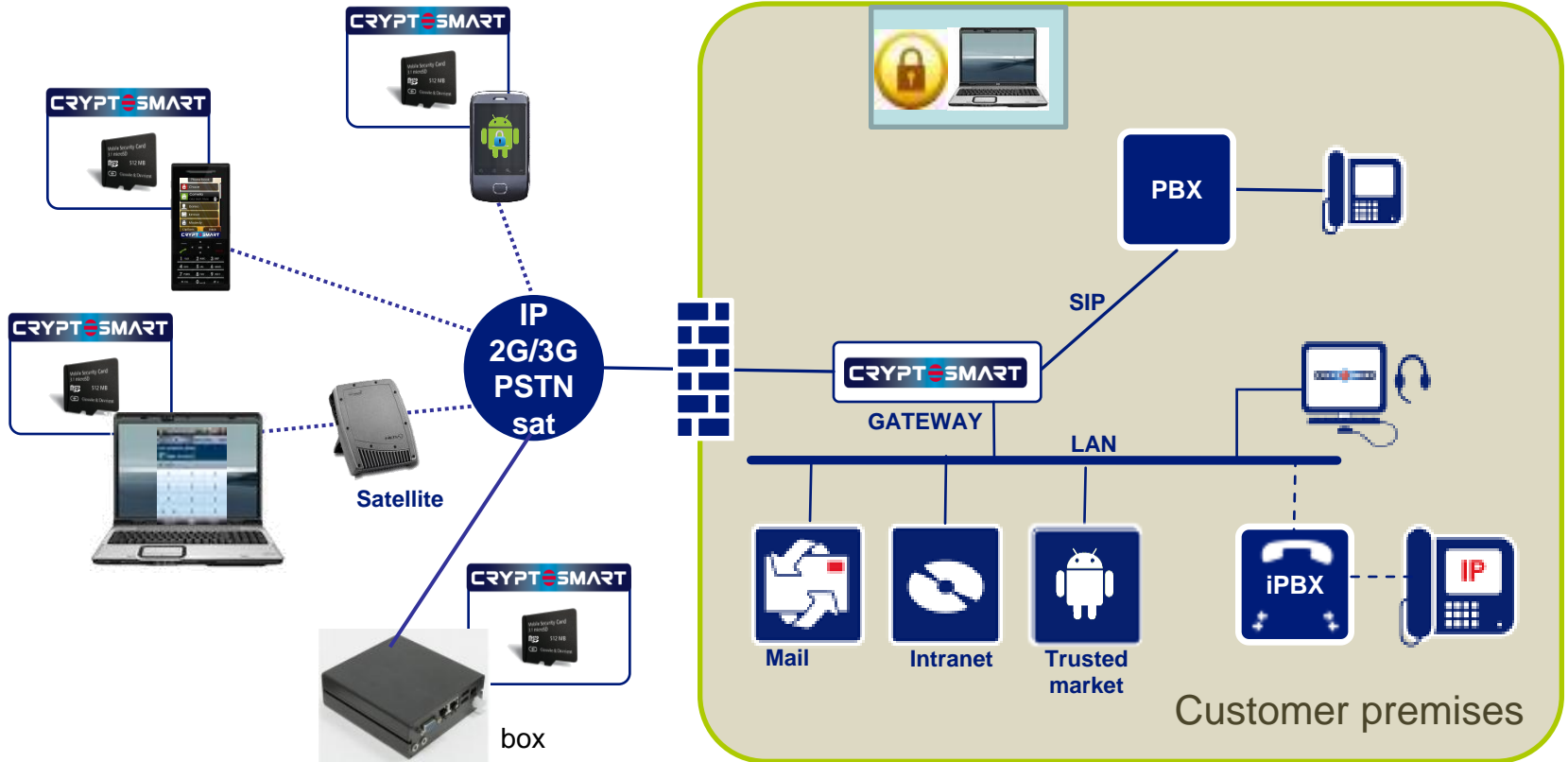
SATELLITE
(Inmarsat, Thuraya)

FIXED
(RTC, xDSL, Fibre)

... for all applications



System architecture example



Main security features

Features	Mobile	PC	Box & TOIP
Secure voice	•	•	•
Conf call	•	•	•
Encrypted-clear voice	•	•	•
Secure PUK code	•	•	•
Remote erasing	•		
Local encryption	•	•	
Secure data flow	•	•	•
Videoconference			•
Presence management	•	•	
Secure email	•	•	
Secure file transfer	•	•	•
Secure intranet access	•	•	•
Secure internet access	•	•	•
Secure SMS	•		

Connected Applications

Secure mobile phone

Sagem Wireless and Ercom joint offer

Our vision



ERCOM and SAGEM WIRELESS launch a secure mobile phone, associating simplicity, universality and security.

SIMPLICITY

SECURITY

UNIVERSALITY

S:VOICE : simplicity and security



- Simple, fluid ergonomics through a state of the art user interface
- Sound with digital quality
- Long life battery
- Fully controlled Operating System with guaranteed integrity
- Security based on a smart card which is certified at a governmental level
- Complete firewall, controlling every radio or wired access to the mobile
- Entirely secured, fluid and clear/secure integrated phonebook

S:VOICE : main security features

Feature	Mobile
Strong user authentication	●
End to end secure voice calls	●
End to end secure SMS	●
Remote administration of the phonebook	●
Clear / secure voice calls	●
Scalable security level (parameters)	●
Secure PUK code	●
Local data encryption	●
Presence indicator	●

S:VOICE : mobile phone features



Product :

- 3G / EDGE
 - Quad band: 850/900/1800/1900
 - HSPA- 900/2100
- Proprietary OS - RTOS
- MP3 & FM Radio players
- Video player
- 2.2'' screen, 240x320Px
- 1.3 MPx camera
- Bluetooth 2.1
- Micro USB charger
- 3.5mm Audio Jack plug
- Size : 95g, 112 x 49 x 13mm

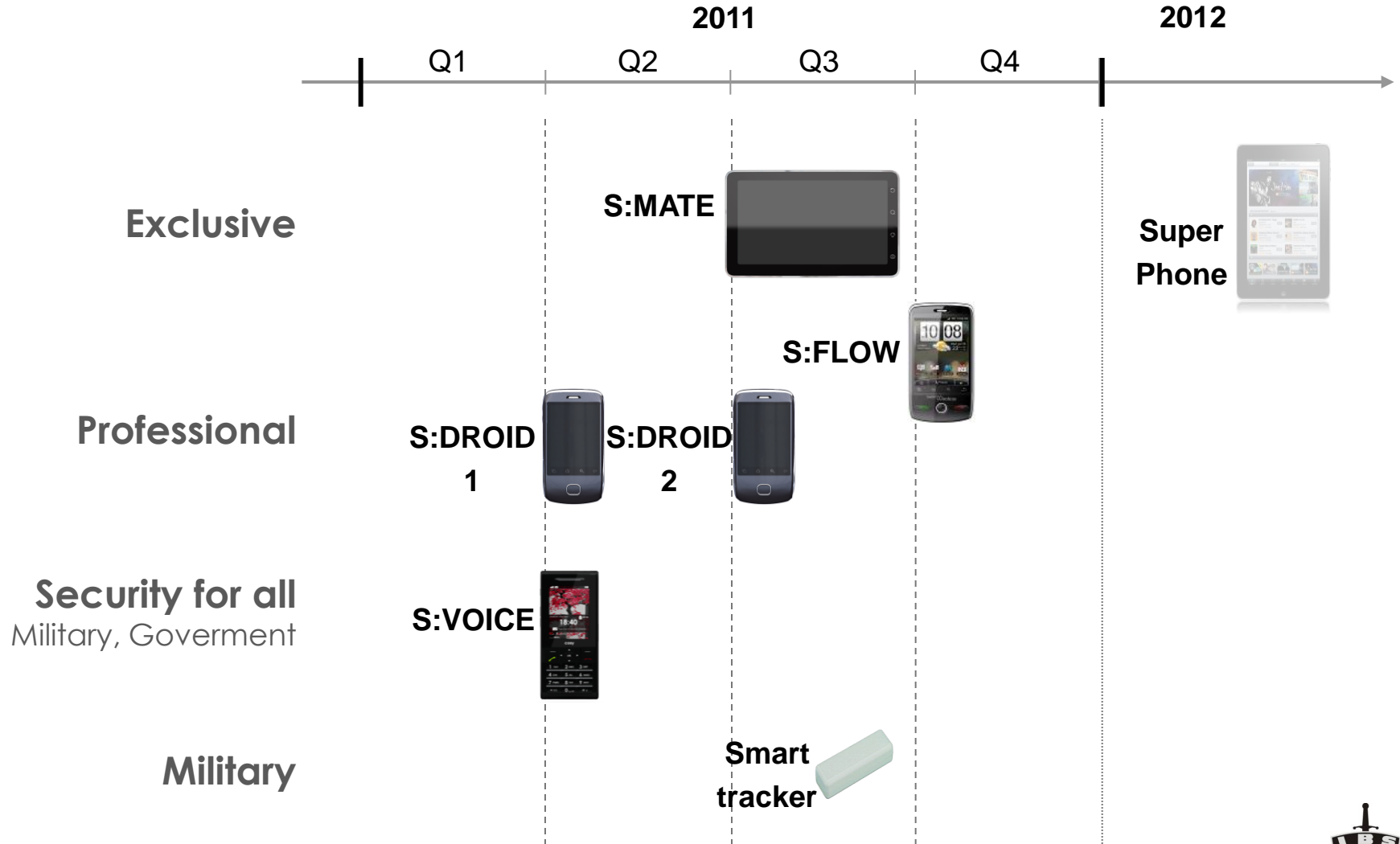
Accessories :

- Charger including data USB cable
- Office desk cradle
- Stereo hands free kit

S:VOICE : mobile phone and communication security

- End to end key negotiation and ciphering
- Certificates and Revocation Lists under X.509 standard
- RSA 2048 bits used for authentication
- Diffie-Hellman 2048 bits used for key negotiation, with non-recovery insurance warranty (perfect forward secrecy)
- AES 256 bits used for ciphering
- SHA 256 used for signature calculation
- Smart card:
 - NX P5CC072 component, EAL5+ certified
 - Operating system EAL4+ evaluated
 - Cryptosmart Applet EAL4+ evaluated (in progress)
- All exchanges are ciphered (including key negotiation and signaling)
- Remote unlocking based on one-time used PUK codes

Secure devices roadmap





Secure devices roadmap



FEATURES	S:PHONE	S:DROID	S:FLOW	S:MATE	Superphone
OPERATING SYSTEM					
MeeGo (*)					●
Android		●	●	●	
Proprietary RTOS	●				
APPLICATIONS AND USER INTERFACE					
Dual mode : Professional / Personnal			●	●	●
Full application suite from open OS			●	●	●
Surface Applications			●	●	●
Trusted Market		●	●	●	●
Control of device synchronization with untrusted servers		●	●	●	●
Full MS Exchange (e-mail, contact, calendar)		●	●	●	●
CRYPTOSMART SECURITY					
Secure Data (e-mail, web access)		●	●	●	●
Strong user authentication	●	●	●	●	●
Local data encryption and remote wipe	●	●	●	●	●
Secure PUK code	●	●	●	●	●
Device Management (phonebook, parameters, ...)	●	●	●	●	●
End to end secure voice calls	●	○	○	○	○
End to end secure SMS	●	○	○	○	○
Clear / secure voice calls	●	○	○	○	○
Presence indicator in integrated phonebook	●	○	○	○	○

(*):Cryptosmart availability on MeeGo is under study

● : standard ○ : voice / sms option



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