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# Secure LTE communications









ISSS – Hradec Králové, 1. dubna 2019

# **HOOX** new generation in comunications

## **Presentation for ISSS**



# For a global approach to security



#### Hoox: your trusted solution

- Secure smartphones dedicated to cover enterprise and government needs
- A range of terminals to cover all customer needs based on the expected security level

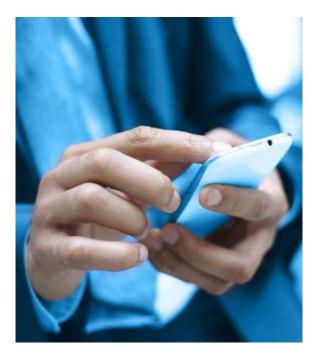
#### Hoox: business security for professional use

- Secure smartphones to keep you efficient and productive in all circumstances
- Provides new usage such as conference call, instant messaging and recording



# The security of smartphones

A strategic challenge for your company



#### The smartphone is a real "mobile office" It is the extension of your company

**689/0** of companies were affected by cyber crime in the last 24 months

**3.36** billion euros

of financial impact

\*Source: PwC study on corporate fraud published on March 7, 2016

## **Banks**

#### Protect clients' sensitive data



#### Description

- Private international bank specializing in wealth management
- More than 200,000 employees
- Very frequent travel abroad

#### Needs

- Availability of secure smartphones
- Easy-to-use devices
- Reduction of the operational risk linked to the management of client portfolios

Absolute confidentiality in regards to banking secrets



# **Small or large companies**

Protect your company's critical data



#### Description

- A French SME with 5 affiliates worldwide
- Manufacturer of aircraft parts
- Very frequent travel in France and abroad

#### Needs

- Secure mobility
- Exchange R&D procedures via email with their clients in complete security

Absolute confidentiality regarding manufacturing secrets



# **Public institutions**

Protect governmental exchanges



#### Description

Multiple profiles :

- Chief of State
- Ministers
- Secretaries of State

#### Needs

- Protect the confidentiality of strategic communications
- Ensure the security of trades linked to national sovereignty

#### **Complete confidentiality in governmental exchanges**

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# Mobile security

A strategic challenge for your daily activity



# Questions regarding my devices and applications:

- Is my smartphone secure? What will happen to my data if my smartphone is lost or stolen?
- Can we trust the software vendors? Is there a risk of intrusion on my smartphone when downloading applications?
- Is access to my information system secure on my smartphone?

# Have you measured the impact of mobile security on your business?

# Hoox for business Your real protection



## **Hoox secure smartphones**

Don't let risks drag down your productivity

#### **Unhindered productivity**

- Call all your contacts
- Make conference calls
- Exchange information via email
- Access your information system
- Download applications

#### Protected against security risks

- Listening, interception
- Loss or theft of the device
- Intrusive applications

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Intrusion on the telephone



#### **Hoox: complete protection**

- Secure communications prevent eavesdropping on phone calls
- Emails are protected from interception
- Secure access to IT
- Use of controlled applications, all applications are secured

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 Protected device, prevents the extraction of sensitive information

# Hoox for business, a new dimension of security



# Native security: enter a secure universe from the unlock screen!

Hoox is designed for business. Easy to use, intuitive and user-friendly

Security with complete transparency,

a unique experience in the market



# **Hoox for business**

#### Communicate and share with complete peace of mind



#### Keep working as usual, Communicate simply

The hexagonal shape of the icons shows you that these applications are **secured**:

- Protection from listening
- Protection from interception (text, email, etc.)

#### **Benefits**

- Maintain confidentiality of exchanges
- Preserve your financial and commercial information



# **Hoox for business**

#### Communicate securely



#### See the security status on-screen

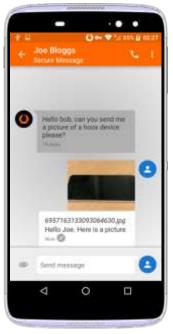
#### **Benefits**

- Maintain the confidentiality of your team's sensitive interactions
- Keep your peace of mind



# **Hoox for business**

Stay connected with complete security



secure group messaging with file sharing

#### Wherever you are, stay connected with your team.

# Join your secure meetings while on the move

#### **Benefits**

- Gather your team instantly and without limitations
- Effectively communicate, even from long distances
- Maintain the confidentiality of exchanges



secure conference call



### **Hoox for business** Stay productive



# Hoox is the extension for your mobile office!

Your time is precious!

Use your usual applications securely and access your data while maintaining the productivity you want.



# Hoox for mission Atos highly secure and resilient tactical LTE solution

# **4G/LTE communication**

To answer current and future operational challenges

Today	Tomorrow:
<ul> <li>Real time position sharing</li> <li>Communication</li> <li>Video</li> <li>Multimedia exchanges</li> <li>Event management</li> </ul>	<ul> <li>Sensors (on human or for environment)</li> <li>IoT</li> <li>Drone control &amp; feedback,</li> <li>Augmented reality</li> <li>Data analytics</li> <li></li> </ul>

New usages will guide the migration process from PMR to LTE

The migration path begin today, with first implementations over the world, and will end in 2025-2030

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# **Tactical communication – situational analysis**

Leading usage of Professional Mobile Radio (PMR)

# PMR is widely used in tactical communications

- MoI: police, intervention forces, border guards...
- MoD: homeland security & peacekeeping...
- Other public services: MoJ, firefighters, medical emergency services,
- Private services: transports

#### **PMR offers:**



#### **Network availability** Highly resilient network and wide coverage



**Confidentiality of voice communication** Private radio network

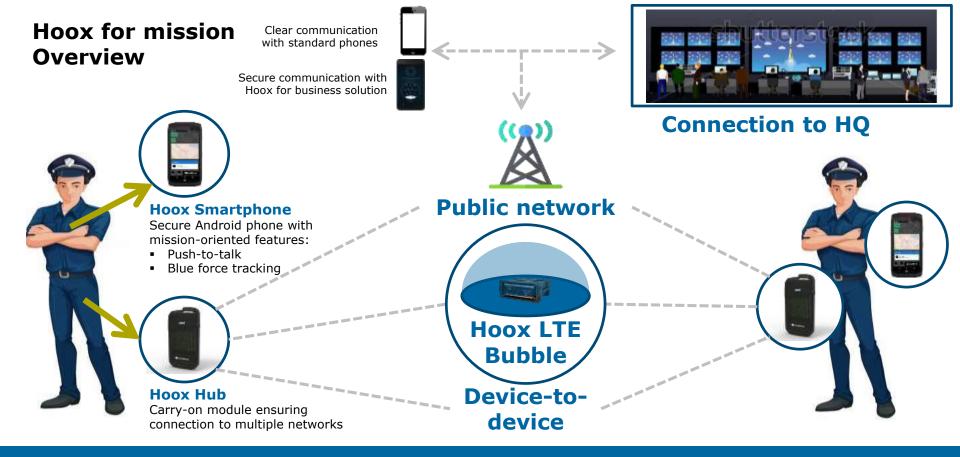


**Critical communication features** Push-to-talk, closed user groups...

**BUT** ... PMR network data sharing capacity is highly restrictive

LTE or LTE over PMR solutions

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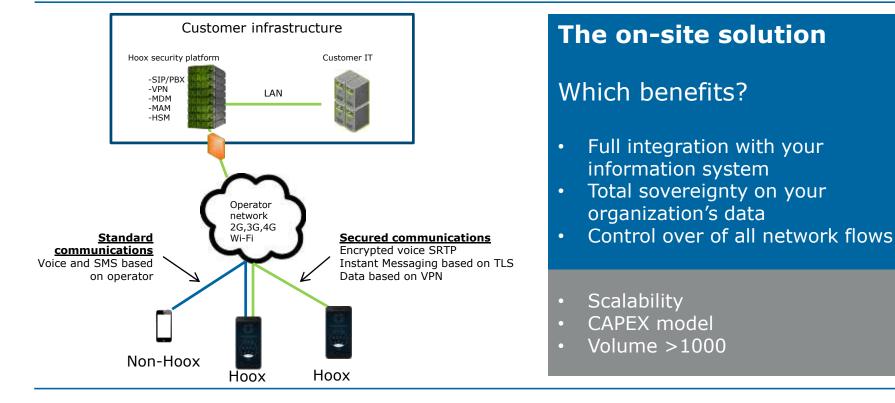


One single handheld for mission apps and voice Always-on communication access No voice break

Deployable mission support

# Hoox "on premises"

Full integration with your IT



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## **Secure communications**

Prevention from eavesdropping and interception

#### Two ways to communicate with Hoox:

- Secure communication with other Hoox users
- **Standard communication** (standard calls, standard SMS): same risks as with a standard smartphone

#### Hoox secured channel of communication:

- Secure calls or conference calls: voice calls are encrypted. Signaling uses SIP/TLS and voice data transfer uses SRTP Pass-through protocol (end-to-end encrypted call), 256-bit AES
- **Instant messaging**: SIP/TLS, 256-bit AES
- Data: all data exchanges (e.g. web browsing and mails) are going exclusively through a VPN. There is an IP tunneling which forces all connections from the mobile phone to the central system through the VPN; TLS.

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# **Protected device**

Prevention from extraction of information

#### USB

- USB is strictly controlled
- Only fundamental features are kept
  - File transfer (with security code)
  - 4G connection sharing
- All other functions are removed from the Hoox (not just deactivated)



## **Secure connections**

Prevention from over-the-air intrusion

- All wireless features are strictly controlled
- Only fundamental features are kept
- All other functions are removed from the Hoox (not just deactivated)





# **Private store**

#### Prevention from unsafe applications

#### Hoox smartphones include a private store

- **No public store** installed on the Hoox
- Only "signed by Atos" applications up for installation: no other possibility to install an application (i.e. downloading by a file transfer)

#### ► Atos audits all applications for download in your private store

- Security policy compliance
- Rights and permissions
- Most inappropriate behaviors are detected (malware, virus, rootkit, unwanted connection to servers etc.)

#### Your own applications for download in your private store

- Possibility to **add your own applications** after an Atos audit and test.
- Available for your employees only



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# Thank you

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