



SPIK 2025

How can the GUARDIAN increase the safety and security of police operations?

Lorris Follonier

Director of Operations | GUARDIAN – Secure Mobile Platform

Agenda

1. Introduction
2. Current situation
3. Our solution
4. Key benefits
5. Use cases
6. Future Capabilities
7. Conclusion
8. Q&A



1. Introduction

Why data security matters

Cyber threats
& phishing attacks

Data sovereignty

Unsecured
File sharing

Location tracking
risks

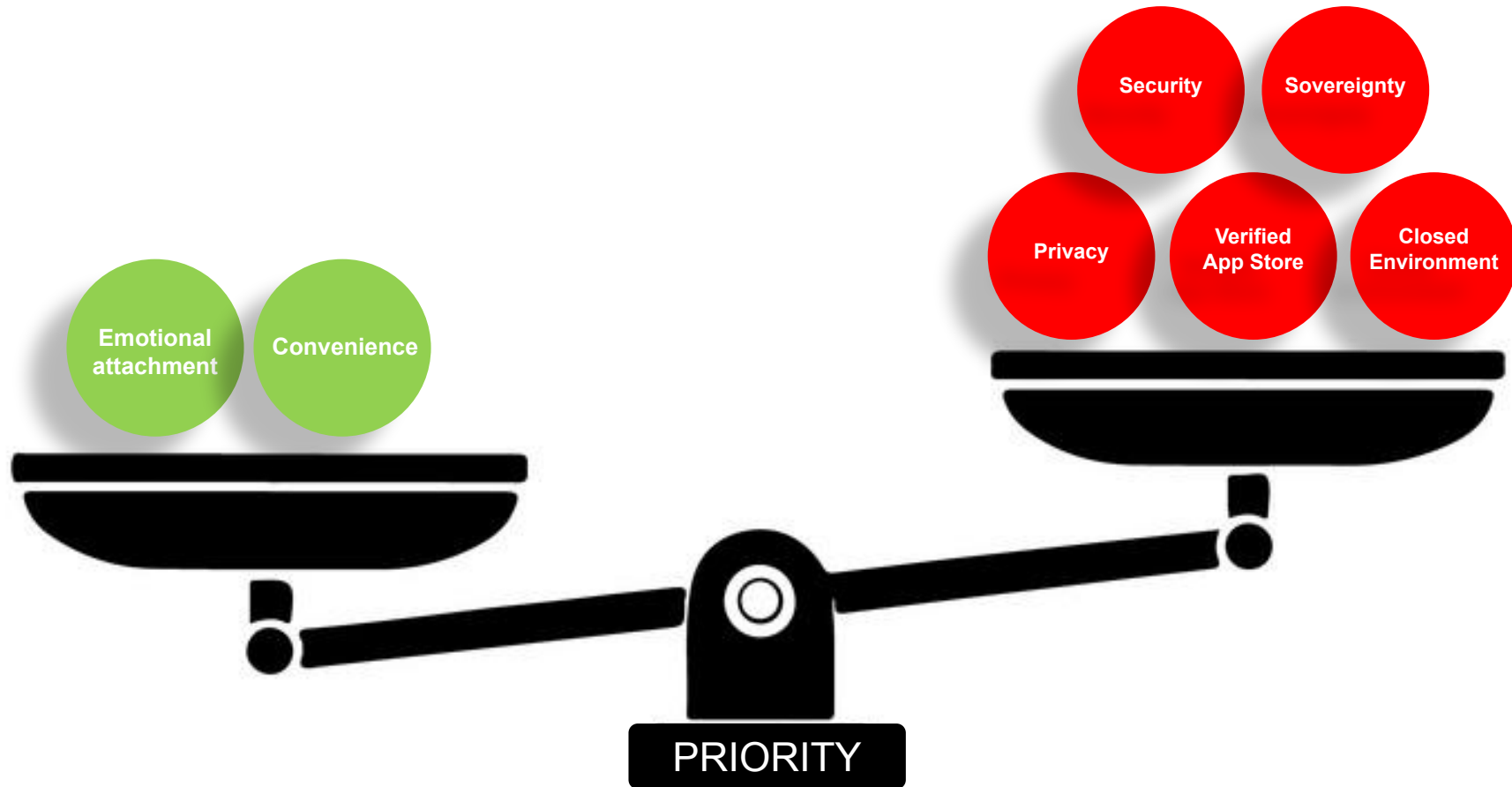
Device theft
& data loss

Fraud Prevention
& ID Verification



2. Current situation

Do you really know what you're using today? The observation



3. Our solution

GUARDIAN - Secure Mobile Platform (Environment)



/ Secure OS



/ App Store



/ Services

3. Our solution

GUARDIAN - Secure Operating system (OS)



Minimal attack surface and built-in privacy

Secure boot	Access control	Encryption
Data isolation	No Google	And more >



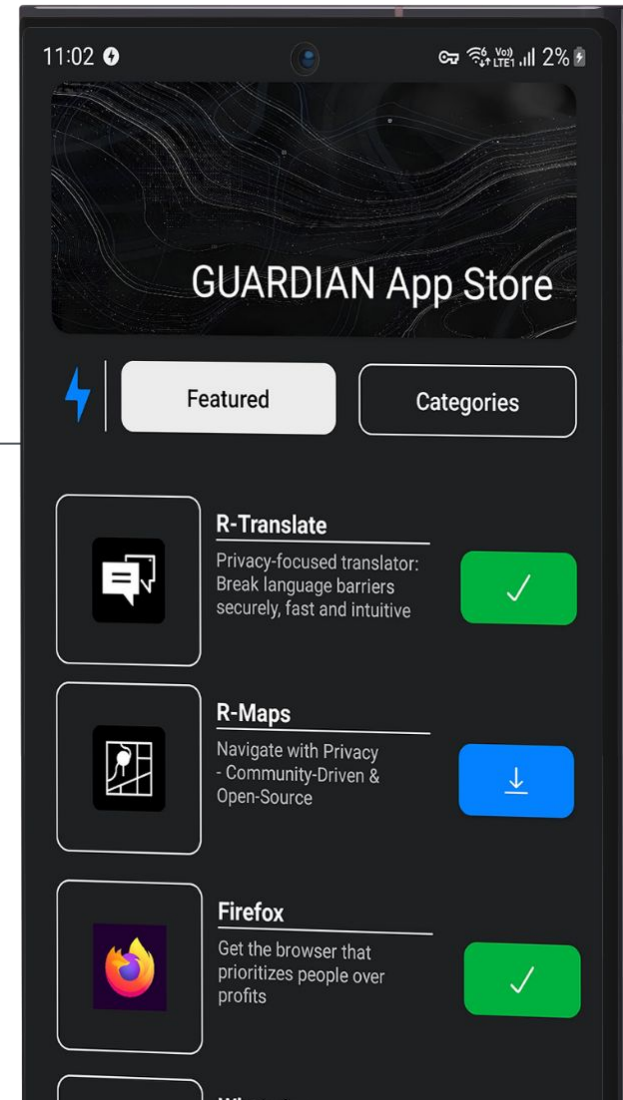
3. Our solution

GUARDIAN – Application Store



Exchange and navigate in total confidentiality

- Flexibility & transparency
- Packed for productivity
- Secure & controlled access to private apps
- Tailored to business



3. Our solution

GUARDIAN – Desktop experience



Use as a computer

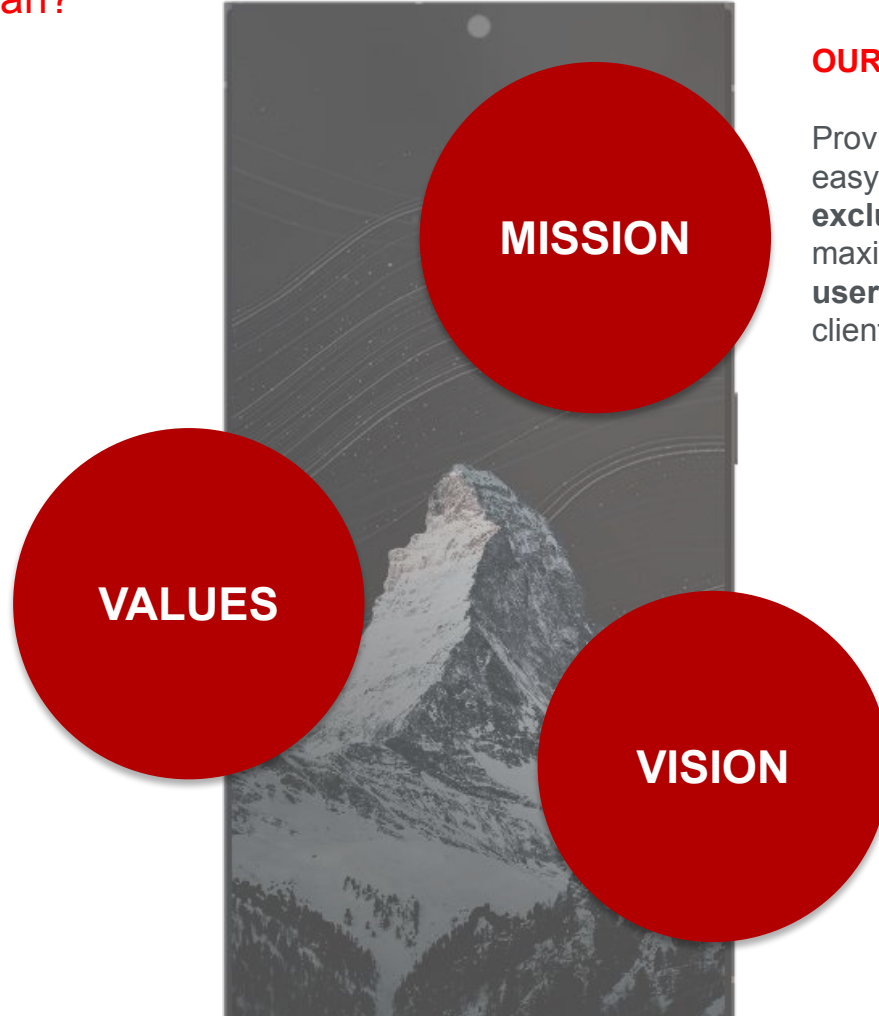


3. Our solution

Why you should chose Guardian?

OUR VALUES

We put our **customers first**, constantly striving to improve and innovate. **Security** is our top priority, ensuring trust and reliability. With a commitment to excellence, we deliver the highest standards in everything we do.



OUR MISSION

Provide the most secure, robust, and easy to use **secure mobiles** with an **exclusive platform** that combines maximum privacy, data security, and **user friendliness** to protect our clients' most sensitive information.

OUR VISION

By consistently innovating and refining our **secure mobile platform**, we aim to provide the most **trustworthy** and **effective mobile communication** tools, ensuring that they can fulfil their missions with utmost **confidentiality** and **reliability**.

4. Key benefits

Can one device tackle all problems?



Secure Home-built OS
& Own App Store



Data Server



Containerization
(Sandboxing)



Secure & scalable
services + fleet
management

5. Where fiction meets reality

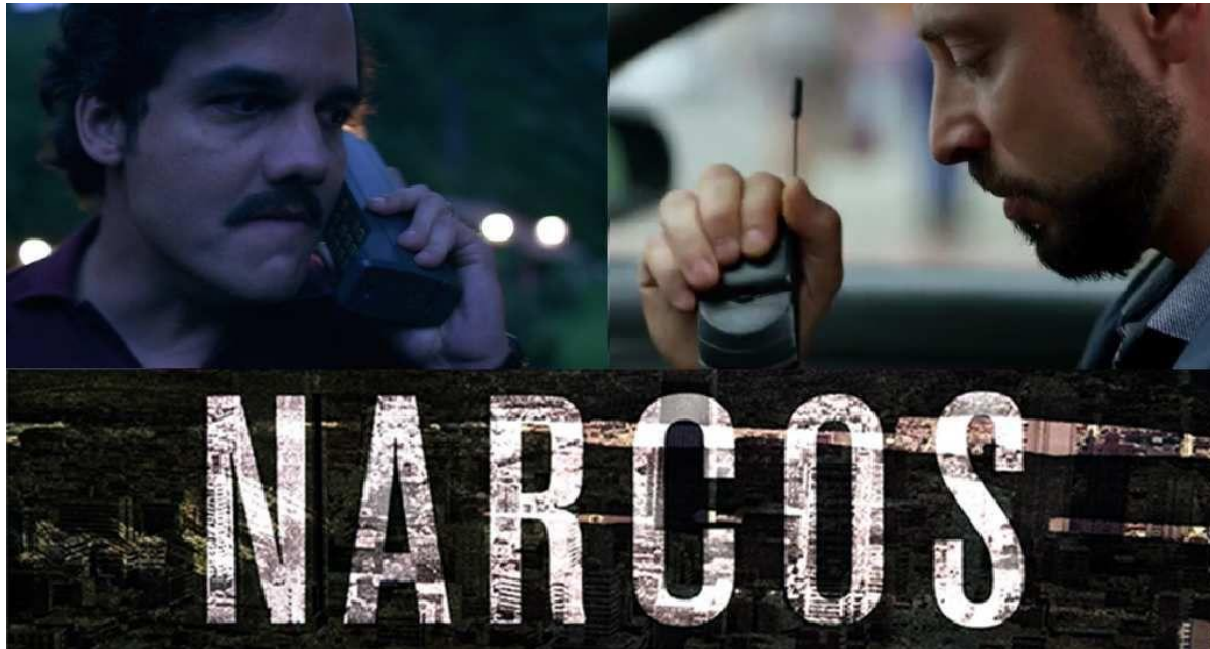


Image credit: Netflix, Narcos Series

Un espion dans votre poche: des milliers d'applications dévoilent votre localisation

Sciences-Tech.
Modifié le 24 janvier 2025 à 14:01

Résumé de l'article Partager



Un espion dans votre poche : des milliers d'applications révèlent votre localisation. - [KEYSTONE - ERIK S. LESSER]

Image credit: RTS, 24.01.2025

5.1 Use Case 1

How can we increase the safety and security of your data?

FILE SHARING

Problem: Paper, unsecured chats or emails, public cloud storage and others can expose your data.

Solution: A secure mobile environment enables you to access, verify and issue digital documents securely within minutes.

Impact: Faster law enforcement actions with legal integrity.



Image credit: The Guardian (Newspaper)

5.2 Use Case 2

How can we increase the safety and security of your data?

DATA LEAKAGE

Problem: Eavesdropping, charging phones on corrupted USB ports, connecting to unsecure Wi-Fi and 5G antennas, AirDrop or Bluetooth vulnerabilities, etc.

Solution: With Guardian and HDM, you can disable microphone, Wi-Fi, USB, and other subsystems directly at the hypervisor level, making them completely inaccessible even in the case of a compromised OS.

Impact: Eliminates data leaks, prevents external threats, and ensures operational confidentiality.

Apple knew AirDrop users could be identified and tracked as early as 2019, researchers say

Analysis by Sean Lyngaas and Brian Fung, CNN
© 6 minute read · Updated 11:09 AM EST, Fri January 12, 2024



Employees stand in an Apple retail store in Grand Central Terminal, January 3, 2019 in New York City. Drew Anzures/Getty Images

The Brussels Times

Unidentified hackers have managed to acquire the names and mobile phone numbers of all 2,800 employees of the Bern cantonal police in Switzerland, according to authorities.

The data breach occurred due to a security flaw in an application universally utilised by the police on their smartphones, a spokesperson for the police explained on Friday evening.

"There has been a leak of data, namely the names and phone numbers of every employee who owns a mobile phone," the spokesperson added.

Image credit: The Brussels Times

5.3 Use Case 3

How can we increase the safety and security of your data?

TRIANGULATION

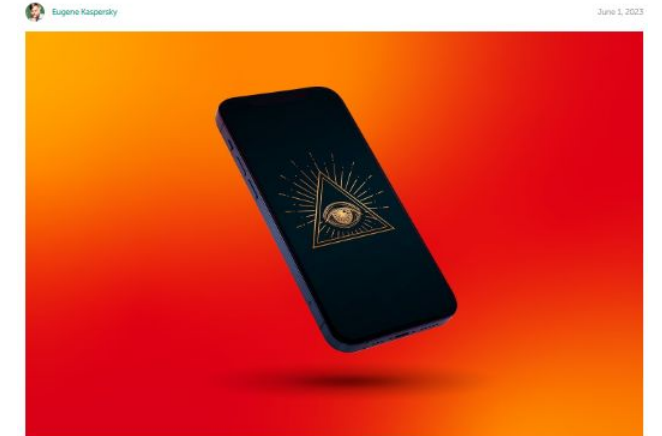
Problem: Law enforcement agencies face a critical cybersecurity challenge: preventing the unauthorized localization of officers during operations. Google services, mobile network triangulation, and spyware expose their real-time positions.

Solution: Replace opaque services with open source solutions and review their code to ensure that they don't connect to any third party. Guardian also follows a whitelist approach, where only a subset of verified applications can access location.

Impact: Maintain security of law enforcement agencies and privacy

A matter of triangulation

Targeted attack on our management with the Triangulation Trojan.



from Apple devices. Further investigation by our team showed that several dozen iPhones of senior employees were infected with new, extremely technologically sophisticated spyware we've dubbed "Triangulation".

Due to the closed nature of iOS, there are no (and cannot be any) standard operating-system tools for detecting and removing this spyware on infected smartphones. To do this, external tools are needed.

An indirect indication of the presence of Triangulation on the device is the disabling of the ability to update iOS. For more precise and reliable recognition of an actual infection, a backup copy of the device needs to be made and then

Image credit: Article E. Kaspersky

6. Future capabilities

What's in the pipeline for the next developments?

Current policy

- Wi-Fi
- Bluetooth
- Micro
- Camera
- Speaker
- USB
- Modem
- NFC

History

- Date: 16/12/2023 Time: 10:27:47
- Date: 11/12/2023 Time: 07:45:12
- Date: 02/08/2023 Time: 09:10:52

Apply Policy

Sensor Management




7. Conclusion


This has to stop!


Key takeaways


- There are numerous security problems
 - RUAG elevates the level of security with GUARDIAN
 - Privacy is also a topic for work
 - Fiction meets reality
 - Uses cases for police forces
-
- **LET'S STOP THIS SERIES OF ARTICLES!**

RTS Info Sport Culture TV & Streaming Audio

 **Un espion dans votre poche: sur la piste du trading de nos données de localisation**
Le 15 janvier dernier, le média public alémanique SRF révélait qu'une application mobile sur cinq partage aujourd'hui, souvent à notre insu, notre localisation. Et ces données de millions de téléphones portables sont à vendre. Mais alors, qui en tire profit? SRF a approfondi l'enquête. Et la piste mène en Lituanie.
Dialogue
Lundi à 07:13

 **Un espion dans votre poche: des milliers d'applications dévoilent votre localisation**
L'emplacement de millions de téléphones portables est à vendre. Une enquête de SRF révèle qu'une application sur cinq transmet des données à des tiers.
Sciences-Tech.
Le 23 janvier 2025

 **Extraits du film "Pegasus, un espion dans votre poche" (Réal. Anne Poiret, 2023)**
Geopolitis
Le 19 mars 2023

 **Téléphone portable, un espion dans ma poche?**
Avez-vous déjà eu cette impression étrange que votre téléphone, même rangé au fond du sac, captait vos conversations, pour vous proposer ensuite de la publicité ciblée, en lien avec vos propos? De nombreuses personnes semblent en avoir fait l'expérience. Paul Such, directeur de la société Hacknowledge, expert en sécurité informatique, fai...
On en parle
Le 6 mai 2022

Thank you very much.

Visit us at our booth to learn more about the
GUARDIAN and schedule a meeting with
our experts