Case Study | KABA & Reslam

Wibu-Systems provides unique software copy protection for Kaba and Reslam applications

The Challenge

A large South African banking group was looking for a way to control their ATM cubicle estate with a single central system, which they also hoped would significantly reduce their costs. They found that most money was wasted on repeated technical service calls due to lost or damaged keys, internal or external vandalism, and arbitrary sabotage of the equipment in ATM cubicles. Their ideal solution did not exist yet; thus Reslam was born.

The Solution

The Reslam solution is a highly flexible, keyless, and geo-locating system that uses three main components to meet and exceed customers' expectations. This highly disruptive technology combines the industry leading features of the Kaba Axessor Series of electronic safe locks with an elegant Android or iOS mobile component and a secure Reslam server platform, protected by Wibu-Systems' CodeMeter technology.

The Success

At the top of the security pyramid sit the banking and financial institutions where the initial Reslam system was successfully implemented. A multitude of other applications for the Reslam technology immediately became apparent; Reslam developed versions for the mid-tier commercial space and ultimately the consumer space, where the IoT has become one of the hottest hypes of the age.
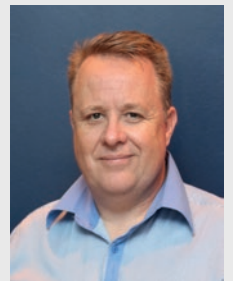
**Peter Cordiner,
Chief Executive Officer at
Reslam**

"We have been collaborating with Wibu-Systems since 2014. CodeMeter is critical to our business, as it protects our intellectual property and safeguards our software from illegal copying. Reslam operates on an international level with partners in South Africa, the UK, and the US and has been receiving enquiries from other territories around the world. As such, it is important for us to work with a global company such as WIBU."

**Ken Metcalf,
Chief Technology Officer at
Reslam**

"Security lies at the heart of our Reslam technology and WIBU has made it possible to retain the highest level of security without losing any flexibility. The wide range of licensing models offered by WIBU makes it easy for us to create various levels of authority per CodeMeter dongle for Administrators, Installers, Supervisors, and Users."

Reslam (Remote Electronic Safe Lock Auditing and Management)

Reslam was born in 2014 from a requirement within a large banking group using the Kaba Axessor Series of safe locks. By extending the functionality of the locks to enable online network connectivity via the Kaba E-B@x and adding an Android or iOS mobile component together with a high security server platform, the bank dramatically improved the operational efficiency of their ATM cubicle infrastructure. Wibu-Systems' CodeMeter technology, which currently protects the software for installing and managing the Kaba Axessor Series of locks, has been used exclusively to protect the Reslam platform and installation software.

HOW IT WORKS

1 **CUSTODIAN AT DOOR WITH RESLAM SMART APPLICATION**

The custodian approaches the door and enters the door code as well as their own PIN into the RESLAM smart application - there is no external identification equipment required on the door.

The smart application sends an "open" request containing the custodian ID, PIN, door code and GPS coordinates of the custodian to the secure RESLAM server application.

2 **ENCRYPTED GEO-LOCATION IN KABA LOCK**

Once the server receives the request, it decodes the encrypted GPS coordinates stored inside the KABA Axessor lock and calculates the distance between the lock and the custodian.
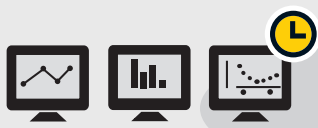
The RESLAM server verifies the supplied information as well as custodian clearance, PIN and route information. Further security checks can be customised within the RESLAM system.

Industry strength AES256 encryption is used for all communication with the server.

5 **REAL TIME MONITORING**

Event-driven alerts with flexible parameter configurations.

4 **SECURE CLOSURE**

RESLAM offers fully configurable exception reporting; monitoring parameters such as the period which the front door can be left open, sending an alert should the timeframe be exceeded.

3 **INTERNALLY INSTALLED KABA AXESSOR LOCK SYSTEM**

If all criteria have been met and the distance between the two GPS coordinates conforms to the predefined distance, then the "open" request is granted and a signal is sent to open the KABA Axessor lock via the secure network.

Evidence of this transaction is stored on the RESLAM server and within the KABA Axessor lock for tracking and auditing purposes.

About Wibu-Systems:

WIBU-SYSTEMS AG (WIBU®), a privately held company founded by Oliver Winzenried and Marcellus Buchheit in 1989, is an innovative security technology leader in the global software licensing market. Wibu-Systems' comprehensive and award winning solutions offer unique and internationally patented processes for protection, licensing and security of digital assets and know-how to software publishers and industrial manufacturers who distribute their applications through PC-, embedded-, mobile- and cloud-based models.

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