ZIMPERIUM

Why Amadis chose Zimperium to secure their next-generation mPOS

amadis

Industry
Payments Industry

Location
Montréal, Qc, Canada

Solution
zKeyBox
zShield

Amadis is a software development company operating primarily in highly regulated payment processing environments. Their development efforts focus on OEM partners, with their EMV software technology inside many manufacturers of payment terminals. "I can't mention names," says Bohdan Myroniw, Chief Strategic Officer at Amadis, "but you are probably using one of our 40 million-plus kernels that are deployed somewhere around the globe—in transit, retail, grocery, or at a petroleum station."

Their most recent payment solution is Amadis One. Developers of mobile apps use it in combination with mobile point-of-sale (mPOS) software to easily add contactless EMV payments into their solutions. Amadis One enables commercial off-the-shelf (COTS) devices—a smartphone, tablet, or other Android-based devices—to become a payment terminal for contactless EMV transactions. Consumers like the frictionless experience of tapping their card, mobile wallet within a smartphone, or wearable device, in places they never imagined. Merchants gravitate to contactless for their customers' safety and immediate cost savings associated with smartphones and tablets. They no longer need to be tethered with traditional payment terminals when accepting contactless EMV payments.

Securing mPOS apps

As you'd expect, this kind of frictionless payment experience has the potential to open up security risks. An off-the-shelf device does not have the built-in security safeguards of a dedicated POS terminal. It is outside the control of financial organizations and could be rooted, have malware sitting in it, or be otherwise compromised. Therefore payment networks have enacted strict requirements to make sure these mPOS transactions are processed securely.

"When we build solutions like Amadis One, the security requirements are really primordial," explains Myroniw. "Just like you cannot allow anyone to tamper with a physical payment terminal, we have to make sure no one can tamper with payment software running in an Android smartphone environment."

Amadis plus Zimperium

When first hearing about Amadis' ambitious, innovative approach, we understood it could be a game-changer. They were building the ability to convert a very physical tangible terminal used worldwide to digital. Amadis is transforming contactless EMV payments into many new retail use cases outside the traditional "bricks and mortar" stores.

Amadis uses Zimperium's application shielding solution, zShield, to protect its code and Intellectual Property (IP) from reverse-engineering and tampering. The advanced security embedded allows them to protect their customers and brand.

It gives Amadis confidence going to market that their software will work as designed and delivered. It was a natural fit for Amadis.

According to Myroniw, "We partnered because of their expertise and their intellectual property."

Amadis addressed the risks in the marketplace by leveraging Zimperium's white-box cryptography solution, zKeyBox, and zShield to provide a secure environment that they can attest and monitor in real-time. "It allows us to detect and protect our software from tampering as it occurs so that we can protect the integrity of the whole payment processing infrastructure," says Myroniw.

What's Ahead

Amadis One answers a deep need in the global market. With the COVID pandemic, the uptake for Amadis One contactless EMV-enabled solutions over the past year has accelerated. We look forward to working with Amadis to build on their substantial market success.

Learn More

Contact us to learn more about how Zimperium helps global enterprises build secure and compliant Mobile Point-of-Sale (mPOS) applications.

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