XEROX ACCELERATES SECURITY AND COMPLIANCE USING DIGICERT TRUSTCORE SDK

Requirement

Ensure Xerox MFPs have the highest levels of security and functionality in the industry

Xerox, a leading provider of multifunction printers (MFPs), continually must achieve two seemingly opposing objectives: provide the highest levels of security inside their MFPs while at the same time supplying boundless functionality that empowers customers to build a variety of document-centric workflows. However, they needed to do so in a way that would not complicate security management for Xerox engineers, customers, or third-party application developers.

"We have a huge responsibility to our customers to make sure our devices do not lead to an exploit, a loss of data, or something even worse than that," said Marc Rocas, principal engineer at Xerox. "But we don't want to create additional work for our customers or put them in a position to require technical personnel onsite to manage security. It would be like me calling an electrician to change a lightbulb, where the lightbulb costs $10 but the visit costs $200."

engineers tools for ef cient and secure deployments across a wide range of different environments. In addition, TrustCore SDK would enable Xerox to scale their security measures as their IoT infrastructure grew, thanks to its f exible and modular architecture.

"TrustCore SDK provides us with predictable certif cation milestones and removes vulnerabilities that we might otherwise have to contend with," Rocas said. "It also means our customers don't carry the burden of security, which provides cost savings for them and for us. And the technical partnership we have with DigiCert means that we can have discussions about roadmaps and additional say in where we want the technology to go."

Impersonating OpenSSL to provide a secure environment

One of Xerox's biggest challenges was f guring out a way to replace OpenSSL without being required to rewrite existing security applications. "We use a large amount of open source to build the software stack, and all the open source software
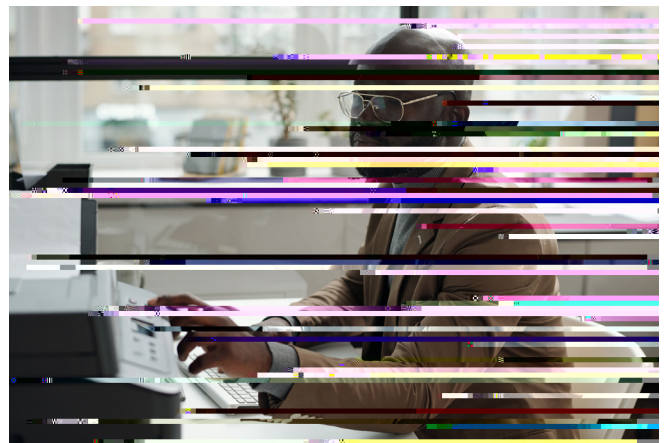
"It made so much sense because now we have a certified partner in DigiCert to work with, and we no longer have to deal with the ups and downs of the open source community, let alone worry about potential exploits that could impact our products and our customers," Rocas said. "And the migration was pretty painless because things worked as they did before."

Our devices are now equipped to handle the challenges of the modern digital landscape, thanks to TrustCore SDK

Providing APIs to simplify TPM key protection and security

TrustCore SDK also gave Xerox the ability to leverage its pre-integrated APIs to abstract the complexities in managing the TPM 2.0 chips securing their MFPs. Using TrustCore SDK, Xerox engineers could now protect TPM private keys, locally attesting and validating the boot sequence, software versioning, and other protections for data in transit and at rest. This enhancement extended beyond basic protection; it infused each printer with advanced cryptographic capabilities and robust data integrity measures, ensuring that every document processed was under stringent security.

"These APIs work seamlessly with the rest of the security infrastructure that TrustCore SDK provides, which reduces