

Scaling Up: MiTek's Secure Code Signing

MiTek Industries is a diversified global supplier of software, engineered products, equipment, and services for the worldwide building industry with over 1500 employees. MiTek Residential construction software engineering organization chose Unbound secured code signing solution and integrated it to their DevOps infrastructure. MiTek's pre-existing code signing solution required dedicated hardware to operate. This solution, while compliant with strict Certificate Authority Security Council (CASC) regulations for code signing, prevented efficient software deployment. MiTek turned to Unbound Security for a software-only, secure, compliant code signing solution which would help promote business growth – and which will meet their required security control on-prem solution.

Key Challenges

MiTek's existing code signing solution required dedicated hardware and many efforts to configure and maintain so MiTek can comply with CASC guidelines. Code signing is a critical component in delivering trusted and authentic software to MiTek customers. MiTek development process challenged by time consuming code-signing administration tasks and low usability in development process.

MiTek development teams spread across multiple sites were using Hardware Security Modules (HSMs) and USB tokens which created high complexity in provisioning certificates updates across organization. Using hardware-based tokens like USB keys exposed MiTek development process to be depended on specific individuals holding the key.

Solution

MiTek chose Unbound secure code signing as it eliminates the limitations and delays when using hardware-based solutions and creates streamlined development operations which include automated code signing. With Unbound CORE, MiTek developers can sign their software artifacts through their software development IDE tools and allow hassle-free certificate administration across multiple sites reducing delays in software build times.

MiTek deployed Unbound's secure code signing solution across its North American servers – as the sole replacement for the legacy dedicated hardware solution previously employed by the North American software development team.



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Industry: Software – Residential construction

Compliance requirements:
Certificate Authority Security Council (CASC)

300 software development employees in North America

100 software development employees in APAC/EMEA

Existing code-signing system:
Hardware-based HSM

Benefits

- FIPS 140-2 Level 2 validated code signing engine
- Real-time, tamper-proof audit logs for every piece of code signed – including which developer performed each operation
- Synchronization between disparate global teams
- Public CA integration for automated certificate generation and renewal

“The value of Unbound’s service is in the virtualization of the code signing solution while maintaining security, the ability to centrally manage a global distribution of services, and the ability to host the solution internally so that unsigned code does not leave our environment. It is through leveraging these benefits that we are able to provide a global solution to our software development team.”

-- Shawn M. Hubbard Director of IT Operations, Mitek Residential North America

Results

- Business continuity – reduced/eliminated backlog of development activity
- Faster deployment/build process – the MiTek team does not have to rely on a lengthy upload/download process to sign code
- Improved productivity – more efficient software development lifecycle (SDLC) workload
- Compliance with CASC regulations and internal security policies

About Unbound Security

Unbound Security is the global leader in cryptography and empowers enterprise customers worldwide to confidently secure, manage and authenticate all critical business transactions, information, identity, and digital assets – anywhere, anytime. Unbound Security CORE is the enterprise platform of choice for secure key management, trusted by many of the world’s largest banks and Fortune 500 companies. Unbound Security is a recent recipient of the Deloitte Fast 500 award and is headquartered in New York, with research and development facilities in Tel Aviv.