



SUCCESS STORY | CODESIGN

Leading pure-play software company strengthens user trust with CodeSign

About the **client**

The client is a major player in the enterprise software industry. They are renowned for their exceptional range of innovation-first solutions which cater to the diverse needs of multiple domains. The software leader aims to streamline operations, increase efficiency, and drive growth for its over 40,000 customers today and well into the future.



Business **need**

As one of the world's largest enterprise software providers, ensuring the authenticity of released/updated software at the user's end was crucial. However, despite multiple security controls, proving authorship of code was challenging and required circuitous methods to survive audits. The client used to sign software cryptographically to assure authorship and prevent tampering post-release, but

the process needed to be more secure, scalable, and leakage-proof.

To address this, they needed an automated, centralized code signing system that could simplify, secure, and streamline the process. Here's an overview of their key requirements:

Streamlined code signing for DevOps teams:

A secure and streamlined code signing solution for multiple DevOps teams with simple workflows and policies at the organizational level.

Diverse file format and OS support:

Signing for various file formats including Windows, rpm, GPG, Android, iOS, Dockers, and Windows native driver files.

Signing of large files with high volume capacity:

Signing for files up to 5GB and handling an average volume of over 12 million per year.

Efficient parallel processing of multiple file formats:

Efficiently processing multiple file formats simultaneously with high throughput and stable performance.

Pre-signing malware scanning for maximum security:

Built-in malware scanning for every file to ensure a leakage-proof system with zero probability of missing scanning and signing only safe and authentic files.

A man and a woman are standing in a server room, looking at a tablet together. The man is wearing a light blue shirt and the woman is wearing a dark blue shirt. In the background, there are server racks with glowing lights and another person is sitting at a desk. The overall scene is dimly lit with blue tones.

Aujas solution

Aujas' CodeSign solution offered an automated code signing process with easy integration with the ability to sign multiple files parallelly. This made

the system highly scalable and extensible. It also featured secure key management and role-based access control to ensure added security.

Key solution highlights:

- Signing ~12 million files per year
- Tightly integrated with build process, to ensure there are no gaps in the signing process
- Enterprise-grade malware scanner to inspect files for malware
- Supports multiple platforms and certificates, including standard, EV, and self-signed certificates

CodeSign is a secure, automated, and DevOps-ready solution that ensures the integrity of software applications, protects the signing keys with full audit trails, and helps combat malware. After integration with the DevOps pipeline of the customer, CodeSign established authorship of software, provided assurance, and certified that software has not been tampered with post-release.

Aujas CodeSign offered a SaaS-based solution with easy CLI integration and the option to submit file signing while parallelly supporting large files. Aujas solution built using microservice-based architecture was easily extendable and scalable as per the customer's demand. CodeSign integrated CloudHSM to secure the keys used for code signing and supported fully automated monitoring and alerting of cloud infrastructure.

As a result, the code signing process for the customer became far more efficient while remaining secure.

Salient features:

- ▼ Complete automation of the code signing process
- ▼ Tight integration with build and release activities
- ▼ Support for Windows, Linux, and MacOS platforms
- ▼ Support for over 50 file types, with the ability to add new file types through plugins
- ▼ Multiple signing options including basic signing, GPG signing, force signing, append signing, MAGE, WHQL, and more
- ▼ Integrated malware protection scanning for added security
- ▼ Certificate and key management functionalities
- ▼ Support for HSMs and secure key management
- ▼ Built-in workflows and audit trails for approvals and signing actions



Benefits

With the help of CodeSign, the authenticity of enterprise software is guaranteed, inspiring customer confidence and trust. CodeSign increases security in a non-invasive manner by seamlessly signing an average of 1 million files per month of various sizes and types.

CodeSign is closely integrated with the build process, making code signing invisible to DevOps and development teams, and eliminating delays. CodeSign simplifies policy enforcement, access control, certificate management, and secure key storage, providing a comprehensive one-stop solution for all application code signing needs, regardless of file types or platforms.

Discover how Aujas' CodeSign can enhance your applications' security with a live demo.

To know more, please visit <https://codesign.aujas.com/>

About Aujas Cybersecurity

Aujas Cybersecurity helps build and transform cybersecurity postures to enable business and mitigate risks. Our focus is to strengthen security

resilience by minimizing the occurrence of attacks, threats, and risks so that you drive change, innovate, and accelerate growth the way you want.

For more information, do visit us at www.aujas.com or write to us at contact@aujas.com

