



# CodeSign Secure

A secure and flexible solution for all your code-signing needs

## What Is Code-Signing?

When a software/script/macro is downloaded, during its installation or execution, you will see a popup saying, "Are you sure you want to run this?" or "Do you want to allow the following program to make changes to this computer." This popup is Code Signing in action. Code Signing solutions play an important role as they allow the identification of legitimate software vs malware or rogue code or software. Code Signing is a process that confirms the authenticity and originality of digital information, especially software code, assuring this digital information is not malicious code and establishing the author's legitimacy. It also provides assurance that this digital information has not been changed, tampered with, or revoked after it has been digitally signed.

### Code-Sign Secure

Our platform guarantees unmatched security and high performance for all your cryptographic needs, ensuring the integrity and authenticity of your software. CodeSign Secure provides advanced insights, cloud-based HSM key management, and policy enforcement for robust practices. Experience seamless integration with Dev Ops CI/CD, and streamlined workflows for hands-free code signing.

## Key Features at a Glance

### 1. HSM-Backed Keys:

Secure signing keys with FIPS 140-2 certified HSMs, enforcing strict access controls for heightened security and compliance with industry standards.

### 3. CI/CD Integration:

Easy integration into build pipelines and workflows, compatible with popular platforms like Jenkins, Okta, GitHub Actions, Azure DevOps, and CircleCI.

### 2. Policy Enforcement & Access Control:

Customize application-wide policies and automate key usage permissions, streamlining code-signing lifecycle management.

### 4. Event Logs & Tracking:

Customize application-wide policies Customizable workflows with detailed audit trails, "M of N" quorum, and multi-tier support for secure and transparent code signing.

## 6. Malware Detection:

Real-time scanning for continuous protection against threats, with customizable detection policies and integration of Threat Intelligence.

## 8. Client-Side Integration:

Enhance performance and reduce server load for faster code-signing, minimizing data transfer and conserving bandwidth while ensuring data integrity and security standards.

## 5. Authentication Integration:

Seamless integration with identity providers (Azure AD, Okta) for SAML, OAuth, or basic authentication. Direct integration with code-signing tools, eliminating the need for scripts.

## 7. Scalable Deployment:

Effortless tracking of code-signing activities with a fast, automated service supporting multiple CAs, HSMs, and development tools for secure deployment across the entire enterprise.

# Use Cases of CodeSign Secure

**Windows Signing:** Digitally sign documents using keys secured in your HSM. It supports Extended Validation (EV) and Organization Validation (OV) public code signing, and private code signing. Authenticode Files Signing Supported by CodeSign Secure with Windows SignTool, Mage, Nuget, Clickonce, HLK, HCK.

**File Extensions Supported by CodeSign Secure:** .exe, \*.dll, cab, \*.msi, \*.js, \*.vbs, \*.ps1, \*.ocx, \*.sys, \*.wsf., \*.cat, \*.msp, \*.cpl, \*.efi, \*.arx, \*.dbx, \*.crx, \*.xsn, \*.deploy, \*.xap, and more .

**Docker & Container Image Signing:** Digital fingerprinting to docker images while storing keys in HSM and supports Docker Notary.

**Firmware Code Signing:** Sign any firmware binaries to authenticate the manufacturer to avoid tampering with the firmware code.

**File Extensions Supported by CodeSign Secure:** .bin, .img, .hex, .fw, .dfu (device firmware upgrade file format)

**OVA/OVF Code Signing:** Ensure authenticity, prevent unauthorized modifications, and protect against malware with a verifiable trail of trust.

**File Extensions Supported by CodeSign Secure:** .ova, .ovf

## Why Trust Encryption

### Consulting's CodeSign Secure?

- FIPS 140-2 Level 2 HSM compliance to meet CA/Browser Forum's requirement.
- Proxy-based access to HSM to secure private keys and ensure integrity.
- Client-side hashing for high-performance, fast, and secure signing.
- Secure timestamps for code signatures, supporting RFC 3161 and Authenticode standards.
- Flexible Multi-Format Code-Signing, including PDFs, XML, MS Authenticode, and Java (including Android and JAR signing).
- Code-signing security with diverse access methods, including X.509 certificates, OAuth, basic authentication, and IP filtering.
- Audited, comprehensive, and signed logs, tracking every transaction and signing action.

**Apple Signing:** Sign all your Mac OS software, tools, updates, utilities, and applications.

*File Extensions Supported by CodeSign Secure:* (.dmg, .ipa, .app) and Apple's ProDuSign used with signing installer packages and archives (.pkg, .mpkg)

**Java Signing:** Sign all your java code-signing certificates securely.

*File Extensions Supported by CodeSign Secure:* (.jar, .war, .sar, .ear) and Android (.apk) with JarSigner.

**Linux Signing:** RPM package to ensure authenticity and integrity throughout the software supply chain.

*File Extensions Supported by CodeSign Secure:* GPG, XML, and more

## Flexible Deployment Options



### Hybrid:

CodeSign Secure can be hosted on-premises, either on containers or physical servers. Private keys can be stored in the cloud with cloud HSM service, on-premise with network HSMs or both.



### Cloud:

We deploy on containers hosted on the public cloud, such as AWS/Azure, or private cloud environments. Private keys can also be hosted on cloud HSMs.



### On-Premises:

Code-Sign Secure is deployed on Containers/Servers hosted on-premise. Private keys for code signing certificates are stored on an available HSM, or a new HSM can be configured.



### SaaS:

We host the APIs you can use on our hosted HSMs to make them compliant. A yearly subscription model to access all the on-premises features without the management requirements with hosting options in your preferred region.

### See it in action

Encryption Consulting LLC is a customer-focused cyber security consulting firm providing an array of services in all aspects of data protection.

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