NicSRS Introduces sslTrus Cloud Code Signing: Cloud-Based Signing Anytime, Anywhere

HONG KONG, CHINA, April 8, 2026 /EINPresswire.com/ -- Two weeks ago, NicSRS debuted their cloud-based code signing at CloudFest 2026 in Germany. This new service has gained a lot of attention and popularity since then. The code signing verifies the organization/individual that publishes the code or software and ensures the code has not been modified after signing. Traditionally the code signing certificate is installed on a physical USB token and the user has to plug the token into a computer to use.

sslTrus Cloud Code Signing

However, in many critical moments such as urgent version releases and vulnerability patches, the traditional code signing method based on physical USB tokens has become a major efficiency bottleneck: devices require shipping, queuing for cross-departmental cooperation, and manual insertion/removal makes automation pipeline integration difficult. The sslTrus Cloud Code Signing transforms "local USB token signing" into a "cloud-based security service," completely breaking the spatial and temporal constraints of physical hardware. It enables instant issuance and use of code signing certificates, millisecond-level response time, and automated integration, providing enterprises with a secure, efficient, and automated software signing experience for urgent release scenarios.

Top Pain Points of Traditional USB Token Signing

With the wide adoption of DevOps practices, software release frequency has evolved from "monthly delivery" to "daily or even hourly delivery." However, the traditional physical USB token signing model exposes systemic shortcomings, especially in urgent release scenarios:

1. Uncontrollable Hardware Procurement and Logistics Cycles: After a code signing certificate is issued, the company must wait for the physical USB token to be shipped to them. This process typically takes 7-15 business days. Days of waiting mean missed market opportunities or the

continued exposure of security risks.

2. Poor Cross-Regional Collaboration: When development teams are distributed across multiple R&D centers and urgently need to collaborate on signing, the physical shipping, confirmation of receipt, usage, and return of the USB token create severe bottlenecks. During an urgent release, the USB token being "physically in transit" directly translates to a "business standstill."

3. CI/CD Pipeline Interruption: Modern automated release pipelines require an unattended "Develop-Build-Sign-Release" process. However, USB tokens require manual insertion and removal, forcing teams to interrupt automation during urgent releases, which severely slows down the release process.

Sign from Anywhere, Anytime with sslTrus Cloud Code Signing Service

sslTrus Cloud Code Signing transforms "local USB token signing" into a "cloud-based security service." It stores the private key in a cloud Hardware Security Module (HSM), seamlessly integrates with CI/CD, and completely eliminates the physical USB token, delivering a secure, efficient, and automated code signing experience.

1. Cloud HSM Storage, Instant Issuance and Use: The code signing certificate's private key is generated and stored in a cloud HSM that meets the highest security standard of FIPS 140-3, following the CA/B Forum’s key storage requirements. The private key never leaves the HSM. Enterprises no longer need to wait for lengthy physical USB token delivery; and the certificate can be used immediately after issuance.

2. Remote Collaboration for Global Teams of All Sizes, No Hardware Transfer Needed: Regardless of team members' physical locations, they can securely call the cloud signing service through authorization. This enables distributed development teams to perform remote signing across regions and time, winning a critical window for urgent releases and making global collaboration as smooth as working locally.

3. Seamless CI/CD Integration for Automated Signing: It integrates seamlessly with mainstream CI/CD tools such as Jenkins, GitLab CI/CD, Azure DevOps, Apache Ant, Maven, Gradle, CircleCI, and GitHub Actions. When an urgent release triggers the build process, the system automatically calls the signing service, achieving signing speeds at the millisecond level, truly enabling an unattended "Develop-Build-Sign-Release" workflow.

4. Complete Log Management for Full Traceability: Every signing operation records key information in real-time, including the signing time, encryption algorithm, and operation status. All operational actions are fully traceable and auditable, easily meeting compliance requirements and providing a solid foundation for software security.

NicSRS is a forward-thinking service provider dedicated to delivering innovative and reliable solutions for the modern digital landscape. With a strong focus on efficiency, scalability, and security, NicSRS provides a wide range of products and services that empower businesses to streamline their operations, automate critical workflows, while maintaining security and compliance.

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