

The Zero Trust Software Integrity Solution

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Key benefits

Security

- Prevents compromised builds from receiving valid signatures through pipeline verification.
- Keys never leave the HSM, eliminating risk of theft and misuse.
- Resistant to insider threats with enforced approvals and role-based controls.

Developer Velocity

- Seamless integration with leading CI/CD tools.
- No manual key handling: developers remain focused on coding.
- Nested signing and artifact validation reduce build complexity.

Compliance & Auditability

- Complete, exportable audit trails: who signed what, when, and under which policy.
- Built-in support for NIS2, Cyber Resilience Act (EU), NIST SSDF, Executive Orders 14028 and 14144 (U.S.); and SLSA.
- Long-term artifact and log retention, structured approval workflows.

Scalability & Flexibility

- Available as SaaS, self-hosted, or hybrid deployment.
- Modular architecture: start with advanced code signing, extend to full pipeline verification.
- Supports a wide range of formats: apps, drivers, containers, macros, SBOMs.

The Challenge

In today's escalating threat landscape, software supply chain attacks have become one of the most damaging and fastest growing risks.

Incidents like the breaches of SolarWinds and 3CX show how attackers target the development process itself - injecting malicious code before release, and getting it signed as if it were alongside legitimate software updates.

Yet, many organizations still assume that code signing equals security. But if the signing process is compromised, even malware can carry a valid signature - enabling it to evade protections that organizations rely on making detection nearly impossible.

As a result, software teams are forced to secure not just their code, but the entire CI/CD pipeline build process - without slowing down delivery.

Key challenges include

- Manual, inconsistent signing workflows
- Insecure key handling and limited access
- Lack of enforcement of policies, reviews, or scan results
- No centralized visibility or traceability
- Growing audit and compliance pressure

Traditional signing tools and even isolated use of HSMs alone can't solve these problems. What's needed is an end-to-end integrity platform - built for modern pipelines and grounded in Zero Trust.

The Solution

SignPath DevSec360 is a Zero Trust Software Integrity Platform that goes far beyond traditional code signing.

It ensures that only verified, policy-compliant, and traceable artifacts are signed and released - by securing both the what and the how of software delivery.

The SignPath DevSec360 platform combines two core components:

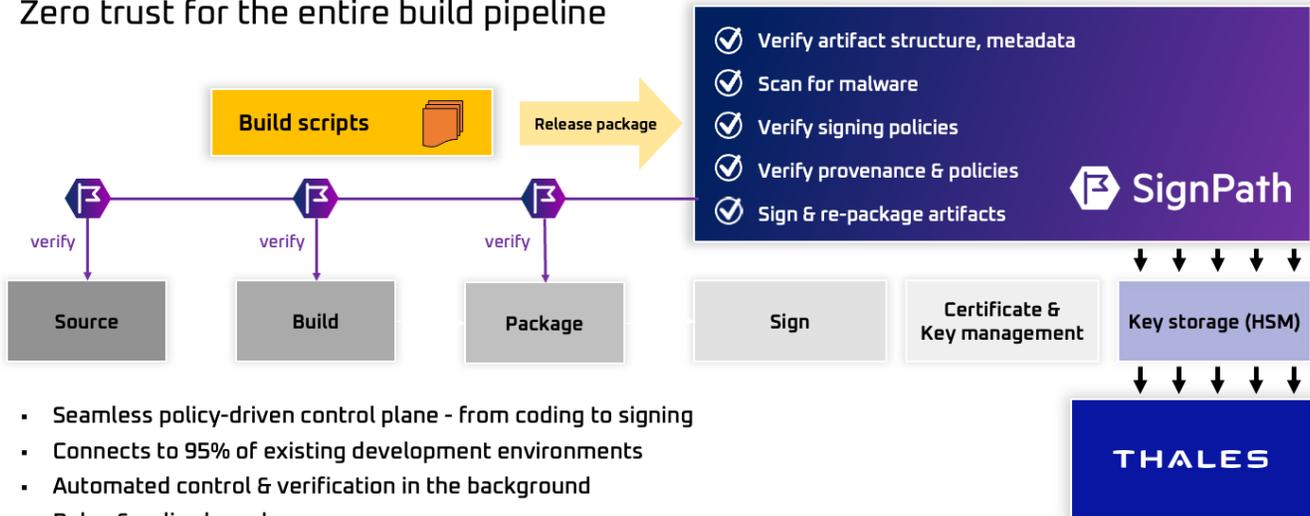
- **SignPath Pipeline Integrity**
Validates the entire build process: origin, source branch, test results, and approvals – before signing.
- **SignPath DeepSign**
Signs only compliant artifacts via automated workflows with policy enforcement, structural checks, and nested signing support.

At the core of the solution is **Thales Luna Cloud Hardware Security Modules (HSM)** on the **Data Protection on Demand (DPoD)** cloud-based marketplace. Within DPoD, the customer is assured its own dedicated Luna Cloud HSM instances to store and manage the keys and establish a common root of trust across all applications and services within the software supply chain.

The Luna Cloud HSM services are hosted in a data center with physical and logical access controls. Every signing operation takes place on the HSM ensuring that the private key is never exposed. SignPath is fully integrated with Luna Cloud HSMs, and when you combine features from two proven platforms, you find the perfect balance of agility and security.

SignPath DevSec360

Zero trust for the entire build pipeline



- Seamless policy-driven control plane - from coding to signing
- Connects to 95% of existing development environments
- Automated control & verification in the background
- Rules & policy based
- End-to-end coverage
- Audit-proof documentation of all signing requests

Solution Key Features and Benefits

- **Policy Enforcement**
Only reviewed code from approved pipelines gets signed - fully automated
- **Deep CI/CD Integration**
Native support for GitHub Actions, Azure DevOps, Jenkins, GitLab, and TeamCity
- **Secure HSM-backed Signing**
Keys stored and used exclusively within Thales HSMs (DPoD or on-prem)
- **Artifact-level Verification & contextual metadata checks**
Build provenance, artifact structure, and approval status
- **Broad Format Support**
Sign installers, containers, drivers, Office macros, scripts, and SBOMs
- **Audit-Ready**
Full traceability with exportable records for each signed artifact

Summary

By combining best-in-class software development security solution by SignPath and top of the line private key security from Thales you get unparalleled Software Supply chain security solution.

About SignPath

SignPath is a European provider of Zero Trust Software Integrity, headquartered in Vienna.

Its platform, DevSec360, establishes a Zero Trust approach to software development that goes far beyond traditional code signing.

With DevSec360, organizations ensure that only verified, authorized, and fully traceable releases are signed. This reduces exposure to supply chain attacks, simplifies regulatory compliance, and strengthens customer trust.

SignPath serves enterprises and critical infrastructure providers across multiple industries, including finance, healthcare, industrial, and public sector organizations.

About Thales

Thales is a global leader in cybersecurity, helping the most trusted organizations protect critical applications, data, identities, and software anywhere, at scale. Through Thales' integrated platforms, customers achieve better visibility of risks, defend against cyber threats, close compliance gaps, and deliver trusted digital experiences for billions of consumers every day.