

CodeTrust 360°

Software Bill of Materials (SBOM)

Overview

Velox Software Bill of Materials (SBOM) is an enterprise-grade solution designed to generate, manage, analyze, and continuously monitor software component inventories across applications, containers, and development pipelines.

The platform provides complete visibility into open-source, third-party, and proprietary components within software builds, enabling organizations to identify vulnerabilities, licensing risks, supply-chain exposures, and compliance gaps. Velox SBOM supports industry standards including SPDX and CycloneDX formats, ensuring regulatory alignment and ecosystem interoperability.

Beyond traditional SBOM capabilities, Velox extends supply-chain visibility across multiple layers:

- **HBOM (Hardware Bill of Materials):** Tracks underlying hardware components, firmware dependencies, and device-level elements to ensure integrity and security of physical infrastructure supporting software systems.
- **CBOM (Cryptographic Bill of Materials):** Identifies and inventories cryptographic assets such as encryption libraries, algorithms, keys, and certificates, enabling organizations to manage cryptographic risk, prepare for post-quantum transitions, and ensure compliance with cryptographic policies.
- **AIBOM / QBOM (AI & ML Bill of Materials):** Provides transparency into AI/ML models, training datasets, model dependencies, frameworks, and inference components, helping organizations manage risks associated with AI supply chains, model provenance, bias monitoring, and regulatory compliance.

Architecture Overview



01

Component Discovery Layer

Scans source code, containers, binaries, and package managers to identify all direct and transitive dependencies.



02

Normalization & Inventory Layer

Generates standardized SBOMs (SPDX, CycloneDX) and maintains centralized component inventory.



03

Vulnerability & Intelligence Layer

Correlates components with CVE databases, exploit intelligence, and risk scoring engines.



04

Policy & Compliance Engine

Applies governance policies for license compliance, vulnerability thresholds, and release gating.



05

Integration & Reporting Layer

Provides dashboards, executive reporting, API integrations, and export capabilities for regulatory submission.

Core Features

01



SBOM Generation & Standards Support

- Automated generation of SBOMs from source code, binaries, containers, and artifacts
- Support for SPDX, CycloneDX, and machine-readable JSON formats
- Version tracking of components, dependencies, and transitive libraries

02



Vulnerability & Risk Intelligence

- Correlation of components with CVE databases and vulnerability feeds
- Real-time alerts for newly discovered vulnerabilities impacting deployed software
- Risk scoring based on severity, exploitability, and business impact

03



License & Compliance Management

- Detection of open-source license types and potential conflicts
- Policy-based license enforcement and approval workflows
- Audit-ready reports for regulatory and procurement compliance

Core Features

04



Software Supply Chain Security

- Identification of malicious or tampered packages
- Dependency path analysis and transitive dependency visibility
- Verification of package integrity and cryptographic signature validation

05



DevSecOps & CI/CD Integration

- Integration with CI/CD pipelines for automated SBOM generation
- API support for artifact repositories, container registries, and DevOps platforms
- Automated gating policies to block risky builds before release

Why Choose Us



Complete Software Transparency

Provides full component-level visibility across applications, containers, and CI/CD pipelines.



Supply Chain Risk Reduction

Identifies vulnerable, outdated, and risky dependencies before deployment.



Compliance & Regulatory Ready

Supports NTIA minimum elements, SPDX, CycloneDX, and policy-driven governance.



Continuous Monitoring & Alerting

Tracks newly disclosed vulnerabilities affecting existing software inventories.

CONTACT US!

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