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Format Overview

Format Publishing History

- 2018/03 - CycloneDX 1.0 - Initial release (components with CPE and PURL)
- 2019/03 - CycloneDX 1.1 - Added support for component pedigree including ancestors, descendants, and variants which describe component lineage from any viewpoint and the commits which make it unique. Added support for external references including the ability to reference external SBOMs, issue trackers, and security advisories (such as CSAF).
- 2020/05 - CycloneDX 1.2 - Added firmware, container, and service components. Services (e.g. REST APIs, FaaS, etc) can now be included in the inventory including the URLs, data classifications, and flow of data between components and services. Improved pedigree support with the ability to specify patches, diffs, and the defects, enhancements, and security vulnerabilities the modifications resolve. Added support for SWID tags and inline SWID documents. Added support for BOM metadata and dependency graphs previously available through extensions.
- 2021/05 - CycloneDX 1.3 - Implemented support for compositions which precisely describe the completeness of relationships (component assemblies and dependencies). Added name-value store that can be used to describe additional data about the components, services, or the SBOM that isn't native to the core specification. Improved support for copyright holders and licenses as additional evidence. Added license support for the SBOM itself. Added support for Protocol Buffers to make machine to machine SBOM transport more efficient.
- 2022/01 - CycloneDX 1.4 - <TODO fill in details from release notes>
- 2023/XX - CycloneDX 1.5 - <TODO fill in details from release notes>

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Tool Classification Taxonomy

Category	Type	Description
Produce	Build	SBOM is automatically created as part of building a software artifact and contains information about the build
	Analyze	Analysis of source or binary files will generate the SBOM by inspection of the artifacts and any associated sources
	Edit	A tool to assist a person manually entering or editing SBOM data
Consume	View	Be able to understand the contents in human readable form (e.g. picture, figures, tables, text.). Use to support decision making & business processes
	Diff	Be able to compare multiple SBOMs and clearly see the differences (e.g. comparing two versions of a piece of software)
	Import	Be able to discover, retrieve, and import an SBOM into your system for further processing and analysis
Transform	Translate	Change from one file type to another file type while preserving the same information
	Merge	Multiple sources of SBOM and other data can be combined together for analysis and audit purposes
	Tool support	Support use in other tools by APIs, object models, libraries, transport, or other reference sources

Open Source Tools

Auditjs

CycloneDX Support	Produce (Build), Produce (Analyze)
Functionality	Audits an NPM package.json file to identify known vulnerabilities.
Location	Website: https://github.com/sonatype-nexus-community/auditjs Source: https://github.com/sonatype-nexus-community/auditjs
Installation instructions	npm install -g auditjs
How to use	auditjs [options]

Bach

CycloneDX Support	Produce (Build), Produce (Analyze)
Functionality	Dependency vulnerability auditor for PHP
Location	Website: https://github.com/sonatype-nexus-community/bach Source: https://github.com/sonatype-nexus-community/bach
Installation instructions	See: https://github.com/sonatype-nexus-community/bach
How to use	See: https://github.com/sonatype-nexus-community/bach

BOM Repository Server

CycloneDX Support	Consume (Import)
Functionality	A lightweight repository server used to publish, manage, and distribute CycloneDX SBOMs
Location	Website: https://github.com/CycloneDX/cyclonedx-bom-repo-server Source: https://github.com/CycloneDX/cyclonedx-bom-repo-server
Installation instructions	See: A BOM repository server for distributing CycloneDX BOMs
How to use	See: https://github.com/CycloneDX/cyclonedx-bom-repo-server

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Chelsea

CycloneDX Support	Produce (Build), Produce (Analyze)
Functionality	Dependency vulnerability auditor for Ruby
Location	Website: https://github.com/sonatype-nexus-community/chelsea Source: https://github.com/sonatype-nexus-community/chelsea
Installation instructions	gem install chelsea
How to use	chelsea [options]

cdx-bower-bom

CycloneDX Support	Produce (Build)
Functionality	
Location	Website: https://github.com/hanstdam/cdx-bower-bom Source: https://github.com/hanstdam/cdx-bower-bom
Installation instructions	npm install -g cdx-bower-bom
How to use	cdx-bower-bom -o bom.xml

cdxgen

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX Software Bill-of-Materials (SBOM) for Node.js, Java, Python, goLang projects, and container images.
Location	Website: https://github.com/AppThreat/cdxgen Source: https://github.com/AppThreat/cdxgen
Installation instructions	See https://github.com/AppThreat/cdxgen
How to use	

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CycloneDX CLI

CycloneDX Support	Consume (View), Consume (Diff), Transform (Translate), Transform (Merge)
Functionality	A command line tool incorporating many common utilities including converting between SBOM formats.
Location	Website: Source: https://github.com/CycloneDX/cyclonedx-cli
Installation instructions	N/A
How to use	N/A

CycloneDX Core for Java

CycloneDX Support	Transform (Tool support), Transform (Translate)
Functionality	Library which allows developers to create BOMs from Java objects, performs validation, and supports common schema extensions.
Location	Website: Source: CycloneDX Core (Java)
Installation instructions	N/A
How to use	N/A

CycloneDX for Cocoapods

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX SBOMs for iOS and Swift projects
Location	Website: https://github.com/CycloneDX/cyclonedx-cocoapods Source: https://github.com/CycloneDX/cyclonedx-cocoapods
Installation instructions	gem install cyclonedx-cocoapods
How to use	Cyclonedx-cocoapods [options]

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CycloneDX for .NET

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX SBOMs for .NET projects
Location	Website: https://www.nuget.org/packages/CycloneDX/ Source: https://github.com/CycloneDX/cyclonedx-dotnet
Installation instructions	dotnet tool install --global CycloneDX
How to use	cyclonedx YourSolution.sln -o /output/path

CycloneDX for .NET (Models)

CycloneDX Support	Transform (Tool support)
Functionality	A .NET Standard library of data models for CycloneDX bill-of-material documents.
Location	Website: https://www.nuget.org/packages/CycloneDX.Models/ Source: https://github.com/CycloneDX/cyclonedx-dotnet
Installation instructions	dotnet add package CycloneDX.Models
How to use	

CycloneDX for .NET (XML)

CycloneDX Support	Transform (Tool support)
Functionality	A .NET Standard library for serializing and deserializing XML format CycloneDX bill-of-material documents.
Location	Website: https://www.nuget.org/packages/CycloneDX.Xml/ Source: https://github.com/CycloneDX/cyclonedx-dotnet
Installation instructions	dotnet add package CycloneDX.Xml
How to use	

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CycloneDX for .NET (JSON)

CycloneDX Support	Transform (Tool support)
Functionality	A .NET Standard library for serializing and deserializing JSON format CycloneDX bill-of-material documents.
Location	Website: https://www.nuget.org/packages/CycloneDX.Json/ Source: https://github.com/CycloneDX/cyclonedx-dotnet
Installation instructions	dotnet add package CycloneDX.Json
How to use	

CycloneDX for .NET (Utils)

CycloneDX Support	Transform (Tool support)
Functionality	A .NET Standard library of utility methods for CycloneDX bill-of-material documents.
Location	Website: https://www.nuget.org/packages/CycloneDX.Utils/ Source: https://github.com/CycloneDX/cyclonedx-dotnet
Installation instructions	dotnet add package CycloneDX.Utils
How to use	

CycloneDX for NPM

CycloneDX Support	Produce (Build), Transform (Merge)
Functionality	Creates CycloneDX SBOMs for Node.js (NPM) projects
Location	Website: https://www.npmjs.com/package/@cyclonedx/bom Source: https://github.com/CycloneDX/cyclonedx-node-module
Installation instructions	npm install -g @cyclonedx/bom
How to use	cyclonedx-npm -o bom.xml

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CycloneDX for Maven

CycloneDX Support	Produce (Build), Transform (Merge)
Functionality	Creates CycloneDX SBOMs for Java (Maven) projects
Location	Website: Source: https://github.com/CycloneDX/cyclonedx-maven-plugin
Installation instructions	N/A
How to use	mvn org.cyclonedx:cyclonedx-maven-plugin:makeBom

CycloneDX for Gradle

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX SBOMs for Java (Gradle) projects
Location	Website: https://plugins.gradle.org/plugin/org.cyclonedx.bom Source: https://github.com/CycloneDX/cyclonedx-gradle-plugin
Installation instructions	Specify <code>id 'org.cyclonedx.bom'</code> in plugins section of build.gradle
How to use	Project dependent

CycloneDX for PHP Composer

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX SBOMs for PHP (Composer) projects
Location	Website: https://packagist.org/packages/cyclonedx/cyclonedx-php-composer Source: https://github.com/CycloneDX/cyclonedx-php-composer
Installation instructions	composer require --dev cyclonedx/cyclonedx-php-composer
How to use	composer makeBom

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CycloneDX for Python

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX SBOMs for Python projects
Location	Website: https://pypi.org/project/cyclonedx-bom/ Source: https://github.com/CycloneDX/cyclonedx-python
Installation instructions	pip install cyclonedx-bom
How to use	cyclonedx-py -i requirements.txt -o bom.xml

CycloneDX for Ruby Gems

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX SBOMs for Ruby projects
Location	Website: https://rubygems.org/gems/cyclonedx-ruby Source: https://github.com/CycloneDX/cyclonedx-ruby-gem
Installation instructions	gem install cyclonedx-ruby
How to use	cyclonedx-ruby -p /path/to/ruby/project

CycloneDX for Rust

CycloneDX Support	Transform (Tool support)
Functionality	Library that supports object models, serialization and deserialization of CycloneDX SBOMs.
Location	Website: https://github.com/doddi/cyclonedx-rust Source: https://github.com/doddi/cyclonedx-rust
Installation instructions	See https://github.com/doddi/cyclonedx-rust
How to use	

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CycloneDX for Rust Cargo

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX SBOMs for Rust Cargo projects
Location	Website: https://crates.io/crates/cyclonedx-bom Source: https://github.com/CycloneDX/cyclonedx-rust-cargo
Installation instructions	cargo install cyclonedx-bom
How to use	~/.cargo/bin/cyclonedx-bom cyclonedx

CycloneDX for SBT

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX SBOMs for Scala (SBT) projects
Location	Website: Source: https://github.com/siculo/sbt-bom
Installation instructions	
How to use	

CycloneDX for Erlang/Elixir Mix

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX SBOMs for Erlang/Elixir (Mix) projects
Location	Website: https://hex.pm/packages/sbom Source: https://github.com/voltone/sbom
Installation instructions	mix archive.install hex sbom
How to use	mix sbom.cyclonedx

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CycloneDX for Erlang/Elixir Rebar3

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX SBOMs for Erlang/Elixir (Rebar3) projects
Location	Website: https://hex.pm/packages/rebar3_sbom Source: https://github.com/voltone/rebar3_sbom
Installation instructions	Add {plugins, [rebar3_sbom]} to rebar.config
How to use	rebar3 sbom

CycloneDX for Go

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX SBOMs for Go projects
Location	Website: https://github.com/ozonru/cyclonedx-go Source: https://github.com/ozonru/cyclonedx-go
Installation instructions	go get github.com/ozonru/cyclonedx-go/cmd/cyclonedx-go
How to use	cyclonedx-go

CycloneDX for Go

CycloneDX Support	Transform (Tool support)
Functionality	cyclonedx-go is a Go library to consume and produce CycloneDX Software Bill of Materials (SBOM)
Location	Website: https://github.com/CycloneDX/cyclonedx-go Source: https://github.com/CycloneDX/cyclonedx-go
Installation instructions	go get github.com/CycloneDX/cyclonedx-go
How to use	

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CycloneDX for Go Modules

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX SBOMs for Go Modules
Location	Website: https://github.com/CycloneDX/cyclonedx-gomod Source: https://github.com/CycloneDX/cyclonedx-gomod
Installation instructions	go install github.com/CycloneDX/cyclonedx-gomod@latest
How to use	cyclonedx-gomod

CycloneDX-Buildroot

CycloneDX Support	Produce (Build)
Functionality	The CycloneDX-buildroot module for Python creates a valid CycloneDX bill-of-material document from buildroot manifest.xlsx file.
Location	Website: https://github.com/alvinchen/cyclonedx-buildroot Source: https://github.com/alvinchen/cyclonedx-buildroot
Installation instructions	See https://github.com/alvinchen/cyclonedx-buildroot
How to use	python3 -m cyclonedxbuildroot.cli.generateBom -i manifest.csv

CycloneDX Web Tool

CycloneDX Support	Consume (View), Consume (Diff), Transform (Translate), Transform (Merge)
Functionality	A browser-based tool for converting, validating, and merging CycloneDX SBOMs. All processing is done client side in the browser using WebAssembly and can be run in off-line mode. SBOM data is not transmitted elsewhere.
Location	Website: https://cyclonedx.github.io/cyclonedx-web-tool Source: https://github.com/CycloneDX/cyclonedx-web-tool
How to use	Visit https://cyclonedx.github.io/cyclonedx-web-tool

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DevAudit

CycloneDX Support	Produce (Build), Produce (Analyze)
Functionality	Open-source, cross-platform, multi-purpose security auditing tool with option to output CycloneDX SBOMs
Location	Website: https://github.com/sonatype-nexus-community/DevAudit Source: https://github.com/sonatype-nexus-community/DevAudit
Installation instructions	See: https://github.com/sonatype-nexus-community/DevAudit
How to use	See: https://github.com/sonatype-nexus-community/DevAudit

dtrack-audit

CycloneDX Support	Produce (Analyze)
Functionality	Publishes SBOMs to Dependency-Track for analysis and result visualization from the command-line
Location	Website: Source: https://github.com/ozonru/dtrack-audit
Installation instructions	go get github.com/ozonru/dtrack-audit/cmd/dtrack-audit
How to use	dtrack-audit -i bom.xml

Eclipse SW360 Antenna

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX SBOMs from Maven projects
Location	Website: https://www.eclipse.org/antenna/ Source: https://github.com/eclipse/antenna/
Installation instructions	See https://github.com/eclipse/antenna/
How to use	

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GitHub Action: CycloneDX for Go Modules

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX SBOMs from Go Modules via GitHub action.
Location	Website: https://github.com/marketplace/actions/cyclonedx-gomod-generate-sbom Source: https://github.com/CycloneDX/gh-gomod-generate-sbom
Installation instructions	N/A
How to use	uses: CycloneDX/cyclonedx-gomod-generate-sbom@v1

GitHub Action: CycloneDX for Node.js

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX SBOMs from NPM projects via GitHub action.
Location	Website: https://github.com/marketplace/actions/cyclonedx-node-js-generate-sbom Source: https://github.com/CycloneDX/gh-node-module-generatebom
Installation instructions	N/A
How to use	uses: CycloneDX/gh-node-module-generatebom@v1

GitHub Action: CycloneDX for .NET

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX SBOMs from .NET projects via GitHub action.
Location	Website: https://github.com/marketplace/actions/cyclonedx-net-generate-sbom Source: https://github.com/CycloneDX/gh-dotnet-generate-sbom
Installation instructions	N/A

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How to use	uses: CycloneDX/gh-dotnet-generate-sbom@v1
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GitHub Action: CycloneDX for PHP

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX SBOMs from PHP Composer projects via GitHub action.
Location	Website: https://github.com/marketplace/actions/cyclonedx-php-composer-generate-sbom Source: https://github.com/CycloneDX/gh-php-composer-generate-sbom
Installation instructions	N/A
How to use	uses: CycloneDX/gh-php-composer-generate-sbom@v1

GitHub Action: CycloneDX for Python

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX SBOMs from Python projects via GitHub action.
Location	Website: https://github.com/marketplace/actions/cyclonedx-python-generate-sbom Source: https://github.com/CycloneDX/gh-python-generate-sbom
Installation instructions	N/A
How to use	uses: CycloneDX/gh-python-generate-sbom@v1

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GitHub Action: CycloneDX for Elixir Mix

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX SBOMs from Mix projects via GitHub action.
Location	Website: https://github.com/marketplace/actions/generate-sbom-for-elixir-project Source: https://github.com/red-shirts/action-mix-sbom
Installation instructions	N/A
How to use	uses: red-shirts/action-mix-sbom@v1

GitHub Action: cdxgen

CycloneDX Support	Produce (Build)
Functionality	Creates CycloneDX SBOMs from Node.js, Java, Python, Golang projects, and container images via GitHub action.
Location	Website: https://github.com/marketplace/actions/cdxgen Source: https://github.com/AppThreat/cdxgen-action
Installation instructions	N/A
How to use	uses: AppThreat/cdxgen-action@v1

Go Sonatypes

CycloneDX Support	Transform (Tool integration)
Functionality	Common utility packages for working with OSS Index, Nexus IQ Server, CycloneDX sboms or getting a user-agent
Location	Website: https://github.com/sonatype-nexus-community/go-sona-types Source: https://github.com/sonatype-nexus-community/go-sona-types
Installation instructions	See https://github.com/sonatype-nexus-community/go-sona-types
How to use	See https://github.com/sonatype-nexus-community/go-sona-types

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Grype

CycloneDX Support	Produce (Build), Produce (Analyze)
Functionality	A CLI tool for analyzing container images for known vulnerabilities and producing SBOMs.
Location	Website: https://github.com/anchore/grype Source: https://github.com/anchore/grype
Installation instructions	See https://github.com/anchore/grype
How to use	<code>grype <image> -o cyclonedx</code>

HERE Open Source Review Toolkit

CycloneDX Support	Produce (Build), Produce (Analyze)
Functionality	Creates CycloneDX SBOMs from a variety of package managers
Location	Website: http://oss-review-toolkit.org/ Source: https://github.com/heremaps/oss-review-toolkit
Installation instructions	See https://github.com/heremaps/oss-review-toolkit#installation
How to use	<code>ort <options> -f CycloneDx</code>

ittosai

CycloneDX Support	Product (Analyze)
Functionality	ittosai is a CycloneDX SBOM vulnerability analyzer that analyzes SBOMs every time a developer commits code to a repository
Location	Website: https://dkfm.io/ Source: https://github.com/devops-kung-fu/ittosai
Installation instructions	See https://github.com/devops-kung-fu/ittosai
How to use	See https://github.com/devops-kung-fu/ittosai

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Jake

CycloneDX Support	Produce (Build)
Functionality	An OSS Index integration to check your Conda environments for vulnerable Open Source packages
Location	Website: https://github.com/sonatype-nexus-community/jake Source: https://github.com/sonatype-nexus-community/jake
Installation instructions	pip3 install jake
How to use	jake [options]

mdbom

CycloneDX Support	Consume (View)
Functionality	Reads a CycloneDX SBOM and generates Markdown of the inventory
Location	Website: https://github.com/HaRo87/mdbom Source: https://github.com/HaRo87/mdbom
Installation instructions	pip install mdbom
How to use	See: https://haro87.github.io/mdbom/index.html

OpenRewrite

CycloneDX Support	Produce (Build), Produce (Analyze)
Functionality	The Rewrite project is a mass refactoring ecosystem for Java and other source code, designed to eliminate technical debt across an engineering organization. The project can generate CycloneDX SBOMs when refactoring.
Location	Website: https://github.com/openrewrite/rewrite Source: https://github.com/openrewrite/rewrite
Installation instructions	See: https://github.com/openrewrite/rewrite
How to use	See: https://github.com/openrewrite/rewrite

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OWASP Defect Dojo

CycloneDX Support	Consume (Import)
Functionality	Open-source, cross-platform, multi-purpose security auditing tool with option to output CycloneDX SBOMs
Location	Website: https://www.defectdojo.org/ Source: https://github.com/DefectDojo/django-DefectDojo
Installation instructions	See: https://github.com/DefectDojo/django-DefectDojo
How to use	See: https://github.com/DefectDojo/django-DefectDojo

OWASP Dependency-Track

CycloneDX Support	Consume (View), Consume (Import), Produce (Analyze)
Functionality	Component analysis platform (similar to SCA but leverages SBOMs exclusively and is not limited to software components)
Location	Website: https://dependencytrack.org/ Source: https://github.com/DependencyTrack/dependency-track
Installation instructions	<ol style="list-style-type: none">1. curl -LO https://dependencytrack.org/docker-compose.yml2. docker-compose up -d
How to use	Publish SBOM for analysis. View results. Optionally ingested SBOMs can be delivered via webhooks to any destination, or extracted to represent component inventory at any point in time.

OWASP Dependency-Track Jenkins Plugin

CycloneDX Support	Publishing
Functionality	Publishes SBOMs to Dependency-Track for per-build analysis, result visualization, and configurable risk thresholds
Location	Website: https://plugins.jenkins.io/dependency-track Source: https://github.com/jenkinsci/dependency-track-plugin
Installation instructions	Install from Jenkins plugin administration
How to use	Add Dependency-Track build step to job and supply path to SBOM

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Retire.js

CycloneDX Support	Produce (Analyze)
Functionality	Creates CycloneDX SBOMs from Node.js and unmanaged Javascript files
Location	Website: https://retirejs.github.io/retire.js/ Source: https://github.com/RetireJS/retire.js
Installation instructions	npm install -g retire
How to use	retire <options> --outputformat cyclonedx

SCANOSS

CycloneDX Support	Consume (Analyze)
Functionality	Software Composition Analysis (SCA)
Location	Website: https://www.scanoss.co.uk/ Source: https://github.com/scanoss
Installation instructions	See https://github.com/scanoss/platform/blob/master/DEPLOYMENT.md
How to use	

ShiftLeft Scan

CycloneDX Support	Produce (Build), Product (Analyze), Consume (Import)
Functionality	Creates CycloneDX Software Bill-of-Materials (SBOM) from a wide-range of languages.
Location	Website: https://www.shiftright.io/scan/ Source: https://github.com/ShiftLeftSecurity/sast-scan
Installation instructions	See https://slscan.io/
How to use	https://slscan.io/

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SwiftBOM

CycloneDX Support	Produce (Edit)
Functionality	Generates SBOMs for demo and PoC purposes.
Location	Website: https://sbom.democert.org/sbom/ Source: https://github.com/CERTCC/SBOM/tree/master/sbom-demo
Installation instructions	See https://slscan.io/
How to use	https://slscan.io/

Syft

CycloneDX Support	Produce (Build), Produce (Analyze)
Functionality	A CLI tool and go library for generating a Software Bill of Materials (SBOM) from container images and filesystems.
Location	Website: https://github.com/anchore/syft Source: https://github.com/anchore/syft
Installation instructions	See https://github.com/anchore/syft
How to use	https://github.com/anchore/syft

oss_inventory

CycloneDX Support	Consume (View), Consume (Analyze)
Functionality	Import CycloneDX BOMs and see OSS statistics
Location	Website: https://github.com/thspinto/oss_inventory Source: https://github.com/thspinto/oss_inventory
Installation instructions	See: https://github.com/thspinto/oss_inventory
How to use	See: https://github.com/thspinto/oss_inventory

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Nancy

CycloneDX Support	Produce (Build)
Functionality	A tool to check for vulnerabilities in your Golang dependencies, powered by Sonatype OSS Index
Location	Website: https://github.com/sonatype-nexus-community/nancy Source: https://github.com/sonatype-nexus-community/nancy
Installation instructions	brew tap sonatype-nexus-community/homebrew-nancy-tap brew install nancy
How to use	nancy [options]

Valaa Stack

CycloneDX Support	Transform (Tool support)
Functionality	SBoMDoc is a VDoc extension which uses CycloneDX namespaces and can emit BOM documents in various formats.
Location	Website: https://valospace.org/ Source: https://github.com/valaatech/kernel
Installation instructions	See https://github.com/valaatech/kernel
How to use	See https://valospace.org/sbomdoc

Visual Studio Code Plugin for Nexus IQ

CycloneDX Support	Produce (Build)
Functionality	Identifies vulnerable libraries and generates CycloneDX SBOMs from vscode.
Location	Website: https://marketplace.visualstudio.com/items?itemName=SonatypeCommunity.vscode-iq-plugin Source: https://github.com/sonatype-nexus-community/vscode-iq-plugin
Installation instructions	See: https://github.com/sonatype-nexus-community/vscode-iq-plugin

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How to use	See: https://github.com/sonatype-nexus-community/vscode-iq-plugin
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Proprietary Products

Fortress File Integrity Assurance (FIA)

Company Contact	Fortress Information Security
CycloneDX Support	Produce (Analyze), Consume (Import, View, Diff), Transform (Translate)
Functionality	FIA can create SBOMs from binary or archive, consume externally provided SBOMs, enrich SBOMs with Fortress risk analysis, compare SBOM versions, and track components to support continuous monitoring.
Location	https://www.fortressinfosec.com/sbom
Installation instructions	SaaS based application. Contact Fortress for a trial or demo
How to use	User guide: https://docs.fortressinfosec.com/docs/sbom-dashboard

Software Assurance Guardian Point Man (SAG-PM)

Company Contact	Reliable Energy Analytics LLC
CycloneDX Support	Consume (Import)
Functionality	Processes CycloneDX SBOM's as part of a seven step software supply chain risk assessment
Location	https://reliableenergyanalytics.com/products
Installation instructions	Contained in Company provided Documentation
How to use	Sag comprehensive {software install pkg} {Evidence output loc}

Sonatype Nexus Lifecycle

Company	Sonatype
Product	Nexus Lifecycle
CycloneDX Support	Consume (Import), Produce (Analyze), Transform (Merge)

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Functionality	Manages end to end software supply chain. Is able to analyze many languages using various techniques such as binary analysis and fingerprinting as well as manifest analysis to produce a deep understanding of the BOM. Lifecycle is able to export the resulting analysis as a CycloneDX SBOM. CycloneDX is also the core of the 3rd party api that allows tools to push data into Lifecycle for additional inclusion and analysis.
Location	Website: https://www.sonatype.com/product-nexus-lifecycle
Installation instructions	Contact Sonatype
How to use	<p>To analyze: https://help.sonatype.com/iqserver/automating/rest-apis/third-party-scan-rest-api---v2</p> <p>https://help.sonatype.com/iqserver/analysis/cyclonedx-application-analysis</p> <p>To export: api/v2/cycloneDx/{appld}/reports/{reportId} or api/v2/cycloneDx/{appld}/stages/{stageId}</p>

Sonatype Nexus Lifecycle Jenkins Plugin

Company	Sonatype
Product	Nexus Platform Jenkins Plugin
CycloneDX Support	Publishing
Functionality	Publishes CycloneDX SBOMs to Nexus IQ for per-build analysis, result visualization, and policy evaluation
Location	Website: https://plugins.jenkins.io/nexus-jenkins-plugin Source: https://github.com/jenkinsci/nexus-platform-plugin
Installation instructions	Install from Jenkins plugin administration
How to use	Add Nexus build step to job and supply path to SBOM

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Heimdall

Company Contact	Medcrypt
SPDX Support	Author after Creation (Audit tool), Consume(Analyze), Transform(Translate)
Functionality	Heimdall is an SBOM generation and translation tool for Medical devices that scans code metadata to create SBOMs, and manages vulnerabilities.
Location	Website: https://cyberprotek.com
Installation instructions	Entirely web based. Contact Medcrypt for demo.
How to use	To import: Upload or paste SBOM into Import tab, or use supported scanning tool in development environment To export:Download from SBOM export tab as a text file.from web portal.

CyberProtek

Company Contact	MediSAO
CycloneDX Support	Produce (Analyze), Consume (Import), Transform (Translate)
Functionality	CyberProtek is an SBOM generation and translation tool for IoT that scans code metadata to create SBOMs, translates between SWID/SPDX/CycloneDx and manages vulnerabilities.
Location	Website: https://cyberprotek.com
Installation instructions	Entirely web based. Contact MediSAO for demo.
How to use	To import: Upload or paste SBOM into Import tab, or use supported scanning tool in development environment To export:Download from SBOM export tab as a text file.from web portal.

MedScan

Company	Medsec
Product	MedScan

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CycloneDX Support	Consume (Import)
Functionality	Consumes SBOM's for helping hospitals manage medical device assets
Location	Website: https://medsec.com/medscan.html
Installation instructions	Virtualized appliance inside hospital, Webportal for user, Contact MedSec for demo
How to use	To import: Locate the device profile relevant to the SBOM, and select 'add SBOM' To export: locate the device profile desired and select 'Download SBOM'

Reliza Hub

Company	Reliza
Product	Reliza Hub
CycloneDX Support	Publishing, Consume (Import)
Functionality	Publishes Reliza Hub metadata as SBOM for use in other tools or ingests SBOMs produced in other tools to update Reliza Hub metadata
Location	https://relizahub.com
Installation instructions	Open relizahub.com and select "Go To App"
How to use	See https://relizahub.com/cyclonedx.html

Cybeats SBOM Studio

Company	Cybeats Technologies Inc.
Product:	SBOM Studio
CycloneDX Support:	Produce (Analyze), Consume (Import), Transform (Translate)
Functionality:	Cybeats SBOM Studio is a cybersecurity software inventory analysis platform. It is built for the pre-market stages of software development and helps product security professionals with mapping, management and design. Cybeats SBOM Studio ingests SBOMs produced at various stages of DevSecOps cycle for more precise identification of vulnerabilities and VEX triage process. The solution models and translates the data into enriched SBOMs. SBOM Studio exports and imports SPDX/CycloneDX formats and enriches the model with vulnerability and context based exploitability data providing visibility into threat modeling and threat intelligence angle of the device.
Location:	Website: https://www.cybeats.com/sbom-studio
Installation instructions:	Contact: info@cybeats.com for demo
How to use:	Analyze: SBOM file's data analyzed for risks, vulnerabilities and license violations Import: Model your solution in SBOM Studio and import SBOM files in SPDX or CycloneDX formats. Export: Export and share security signed SBOMS in SPDX and CycloneDX formats.
Versions supported:	CycloneDX 1.2, 1.3, 1.4

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TrustSource

Company	TrustSource
Product	TrustSource
CycloneDX Support	Produce (Analyze), Consume (Import)
Functionality	TrustSource is a SaaS platform for implementing and maintaining open source compliance (ISO 5230 compliant) in enterprises. It can import CycloneDX, match them with its own information and add them to projects as modules. Thus, containers, binaries as well as own source code can be examined for license compliance.
Location	https://www.trustsource.io/
Installation instructions	SaaS
How to use	See https://www.trustsource.io/

JDisc

Company	JDisc
Product	JDisc Discovery
CycloneDX Support	Produce (Analyze), Consume (Import)
Functionality	Network discovery and IT inventory that can discover CycloneDX SBOMs on enterprise assets and ingest component inventory into the platform.
Location	https://www.jdisc.com/
Installation instructions	See https://www.jdisc.com/en/support/documentation.html https://github.com/jdisc/discovery-api-python-sample
How to use	See https://www.jdisc.com/en/support/documentation.html

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PulseUno Plugin for Dimensions CM

Company	Microfocus
Product	Dimensions CM
CycloneDX Support	Produce (Build)
Functionality	PulseUno enables development teams to continually build and inspect the health and quality of code using plugins such as CycloneDX. Teams can use this information to help decide when changes are ready to be merged, deployed, and released.
Location	https://www.microfocus.com/en-us/products/dimensions-cm
Installation instructions	See https://admhelp.microfocus.com/documents/pulse/en/20.1/pulse/pulse-for-dimensionscm.html
How to use	See https://admhelp.microfocus.com/documents/pulse/en/20.1/pulse/pulse-for-dimensionscm.html

RKVST SBOM Hub

Company	Jitsu Inc
Product	RKVST SBOM Hub
CycloneDX Support	Distribute
Functionality	RKVST SBOM HUB is the first place to find and fetch public or private SBOMs.
Location	https://sbom.rkvst.io
Installation instructions	Free to access SaaS
How to use	https://support.rkvst.com/hc/en-gb/articles/4412493236241

BlackBerry® Jarvis™

Company	BlackBerry Limited
Product:	Jarvis

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CycloneDX Support:	Produce (Analyze)
Functionality:	BlackBerry Jarvis is a cloud based SCA and SAST tool for analyzing binary software images. It produces SBOM documents in CycloneDX format.
Location:	https://blackberry.gnx.com/en/products/security/blackberry-jarvis
Installation instructions:	Cloud based platform. Contact BlackBerry for a trial or demo.
How to use:	Upload a binary software image using the Web interface or API. Select "Download CycloneDX Report" in the scan results.
Versions supported:	CycloneDX 1.4

DejaCode

Company	nexB Inc.
Product	DejaCode
CycloneDX Support	Produce (Analyze, Edit)
Functionality	DejaCode is an enterprise-level open source compliance application, powered by ScanCode. You can generate a CycloneDX 1.4 SBOM from your Product definitions.
Location	Website: https://enterprise.dejacode.com/ Information: https://nexus.com/
Installation instructions	Options include: <ul style="list-style-type: none">• Sign up for a free evaluation• Become a DejaCode SaaS customer• Install DejaCode on-premises
How to use	Define (review, approve) the details of your Product in DejaCode. Use the Share option to generate a CycloneDX 1.4 SBOM in .json format.
Versions supported	CycloneDX 1.4

Sonatype Lift

Company	Sonatype
Product	Sonatype Lift

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CycloneDX Support	Produce (Build)
Functionality	Sonatype Lift is a cloud-native, collaborative, code analysis platform built for developers. It analyzes each developer pull request to find and fix security, performance, reliability, and style issues, and generates CycloneDX SBOMs.
Location	Website: https://lift.sonatype.com/ Information
Installation instructions	Set it up via its GitHub marketplace app - https://github.com/marketplace/muse-dev
How to use	The tool runs for each project that has been installed. It produces an analysis report and then one can export it in CycloneDX format.
Versions supported	CycloneDX 1.4