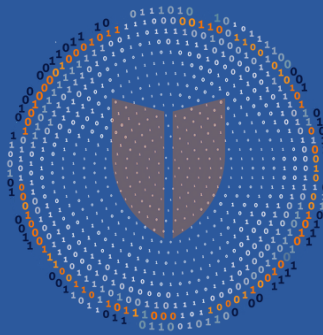


# RunSafe's Build-Time SBOM Generator for Embedded Software

Stay compliant with Software Bill of Materials requirements and get **complete visibility into your software components**. RunSafe Identify generates build-time SBOMs to streamline vulnerability identification and increase the resilience of embedded systems.

## WHY CHOOSE RUNSAFE'S BUILD-TIME SBOM?



### Get Complete Visibility Into Software Components

Capture only the components and libraries in a build for an accurate picture of your software.

### Eliminate False Positives and Negatives

Save engineering teams time. Stop investigating vulnerabilities that will not be in the final build.

### Automate C/C++ SBOM Generation

Protect legacy systems with comprehensive C/C++ SBOMs.

### Identify Vulnerabilities in Real-Time

Quickly identify vulnerabilities and prioritize mitigation.

### Integrate Seamlessly with Existing Tools

Integrate with your CI/CD pipeline for continuous security.



## WHAT YOU WILL SEE

Examples of what a build-time SBOM reveals:

### Redis

# of distinct components: 2139  
% components (library): ~1% (13)  
% components (application): ~6% (123)  
% components (file): ~94% (2003)  
# compiled components: 63

### SQLiteC++

# of distinct components: 310  
% components (library): ~2.6% (8)  
% components (application): ~12% (37)  
% components (file): ~85.5% (265)  
# of compiled components: 1

# How Much Visibility Does RunSafe Provide?

## RunSafe's SBOM generator reports on all opened files, including:

- Source files
- Header files
- Libraries
- Applications
- Compiled files

## Component information includes:

- Provenance information, such as supplier, author, and license
- Hashes as files are accessed
- File paths represented as a custom property
- Custom tag representing components compiled as a result of the build
- PURLS and CPEs

```

{
  "name": "Column.h",
  "type": "file",
  "author": "Sebastien Rombauts",
  "hashes": [
    {
      "alg": "SHA-256",
      "content": "6a81295bc800e37624c6a084348b7a87221a4b47fb98767fc3c3e7f6c0cb77b4"
    }
  ],
  "bom-ref": "7bb00291-9c0d-4333-9869-fcfc2fa47e5f",
  "licenses": [
    {
      "license": {
        "name": "MIT License"
      }
    }
  ],
  "copyright": "Copyright (c) 2012-2024",
  "properties": [
    {
      "name": "filePath",
      "value": "/path/to/SQLiteCpp/include/SQLiteCpp/Column.h"
    }
  ]
}

```

## File Component Example:

RunSafe's SBOM reports on each source file, providing 33x more components with detailed provenance information (authors, copyright, licenses). This detail supports compliance with industry regulations.

## Library Component Example:

RunSafe's SBOM captures both static and dynamic libraries, unlike binary-based SBOMs that only report on dynamic libraries. This provides a complete view of software composition.

```

{
  "name": "libz.so.1.2.13",
  "type": "library",
  "hashes": [
    {
      "alg": "SHA-256",
      "content": "7e2a72b4c4b38c61e6962de6e3f4a5e9ae692e732c68deead10a7ce2135a7f68"
    }
  ],
  "bom-ref": "d6cbb72e-dc46-45cb-9e02-f776bbb4ab98",
  "version": "1.2.13",
  "properties": [
    {
      "name": "filePath",
      "value": "/usr/lib/x86_64-linux-gnu/libz.so.1.2.13"
    }
  ]
}

```

## Increase the Resilience of Embedded Systems

With detailed and complete insights into your software's composition, you can accurately identify vulnerabilities and address risk to deliver a more secure product. Learn more about RunSafe Identify: <https://runsafesecurity.com/platform/identify/>