Sparrow SCA

Open-Source License Identification and Security Vulnerability Management

Securing open-source is not an option.

More than 55% of global companies use open-source software for software development, and the open-source software market continues to grow. Effective management of open-source components has become crucial for secure software development.

Open source License Compliance

Protected by intellectual property rights, open-source software must be used responsibly, with a clear understanding of its licenses, to avoid legal disputes.

Secure Open-Source Software Components

Each year, over 3,000 security vulnerabilities are discovered in open-source software, posing significant security risks. To mitigate these risks, vulnerabilities must be identified and resolved before deployment.

Comprehensive Open-Source Management

Identify Open-Source License and Security Vulnerabilities

Sparrow SCA identifies open-source license and security vulnerabilities and generates a SBOM in SPDX, CycloneDX, and SWID tags format.
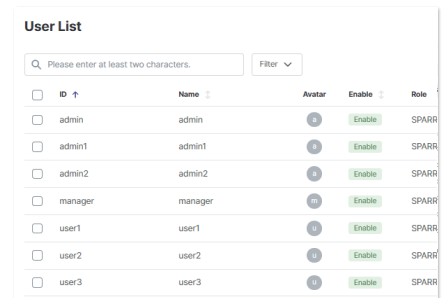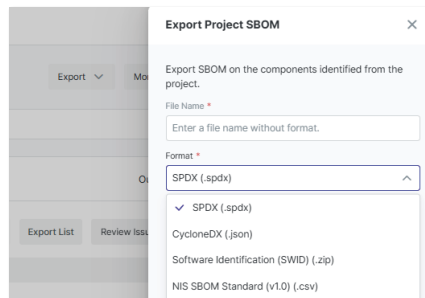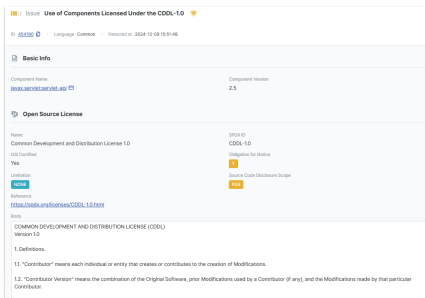

Comprehensive Open-Source Software Analysis

Sparrow SCA performs analysis on the source code, binary, and compressed files. Sparrow SCA also provides analysis on dependency and code snippets.

Seamless Integration with Software Development Process

Providing APIs with open-source analysis results, Sparrow SCA seamlessly integrates security into the automated software development process.

Open-Source Software Analysis

Sparrow SCA performs automated scans of open-source software to identify license and security vulnerabilities in source code, binary, and compressed files.
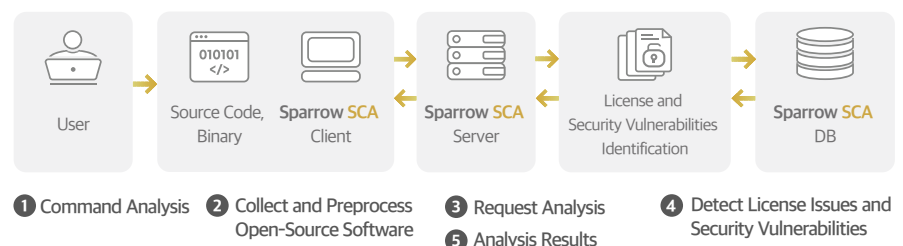
Convenient Analysis Report

With a user-friendly web-based interface, enabling users to effortlessly analyze open-source software and view results in multiple file formats. It provides comprehensive analysis reports, including detailed software component information, and generates SBOMs (Software Bill of Materials) in industry-standard formats such as SPDX, CycloneDX, and SWID tags.

System Optimized for Multiple Users

Sparrow SCA provides a central management system optimized for user-rich development environments to control policies and exceptions to identified security vulnerabilities or identify open-source software licenses.

Components and Analysis Process

The Sparrow SCA client collects and converts the open-source software into an analytical form, and forwards it to the web server. Then, the web server identifies license and security vulnerabilities based on Sparrow's proprietary component DB, which contains vast amounts of open-source software-related information.

User → Source Code, Binary → Sparrow SCA Client → Sparrow SCA Server → License and Security Vulnerabilities Identification → Sparrow SCA DB

❶ Command Analysis
❷ Collect and Preprocess Open-Source Software
❸ Request Analysis
❹ Detect License Issues and Security Vulnerabilities
❺ Analysis Results

About Us

With its advanced technology, Sparrow provides solutions to seamlessly integrate DevSecOps into the software development lifecycle. These solutions include Sparrow SAST/SAQT for static application security and quality testing, Sparrow DAST for web vulnerability analysis with IAST capabilities, Sparrow RASP for runtime application self-protection, and Sparrow SCA for software composition analysis, enabling open-source license identification and security vulnerability management.

Operating System

· Server : Windows 10 or later, CentOS 7 or later

· Client : Windows 10 or later CentOS 7 or later

· Database : PostgreSQL (embedded)

· Browser : Chrome 100.0.4896.88

System Requirements

	Server	Client
CPU	Octa Core 2.5GHz	Dual Core 2GHz
RAM	32 GB	2GB
HDD	500 GB	3 GB +

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