FOSSLight 현재와 미래

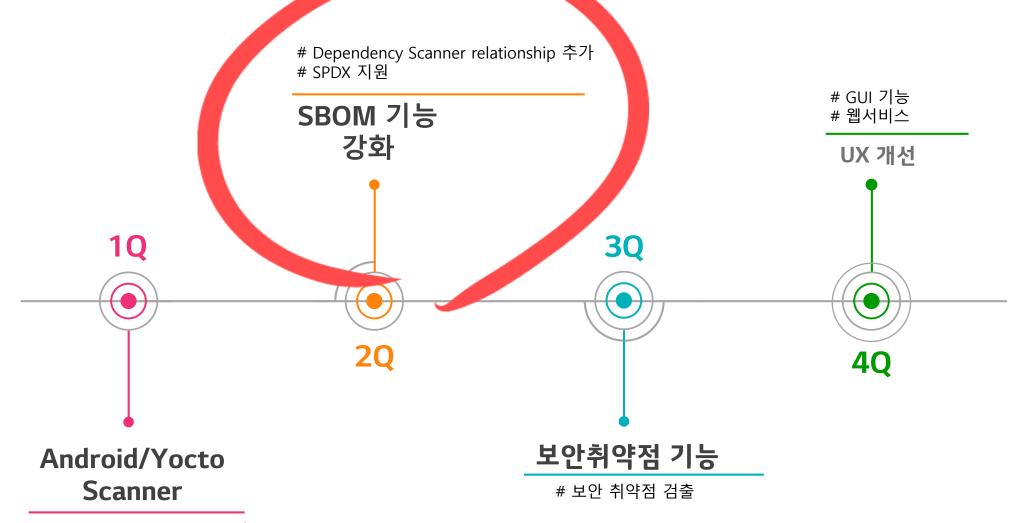
LG전자 김경애



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- 2024 FOSSLight 로드맵

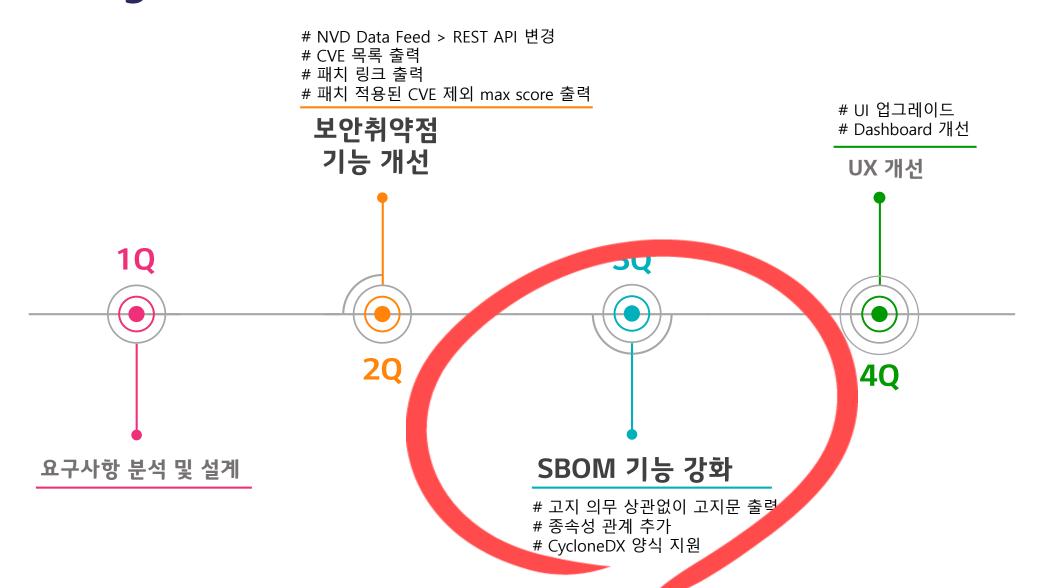
FOSSLight Scanner 2025 로드맵



Android/Yocto Scanner 공개

가이드 공개

FOSSLight Hub 2023 업데이트 일정



FOSSLight SBOM 지원

Baseline Attributes of SBOM

Attribute	SPDX	CycloneDX	SWID	
Author Name	(2.8) Creator:	metadata/authors/a uthor	<entity> @role (tagCreator), @name</entity>	
Timestamp	(2.9) Created:	metadata/timestamp	<meta/>	
Supplier Name	(3.5) PackageSupplier:	Supplier publisher	<pre><entity> @role (softwareCreator/publishe r), @name</entity></pre>	
Component Name	(3.1) PackageName:	name	<softwareidentity> @name</softwareidentity>	
Version String	(3.3) PackageVersion:	version	<softwareidentity> @version</softwareidentity>	
Component Hash	(3.10) PackageChecksum: (3.9) PackageVerificat ionCode:	Hash "alg"	<payload>//<file> @[hash-algorithm]:hash</file></payload>	
Unique Identifier	(2.5)SPDX Document Namespace (3.2) SPDXID:	bom/serialNumber component/bom-ref	<softwareidentity> @tagID</softwareidentity>	
Relationship	(7.1) Relationship: DESCRIBES CONTAINS	(Inherent in nested assembly/subassemb ly and/or dependency graphs)	<link/> @rel, @href	

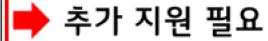
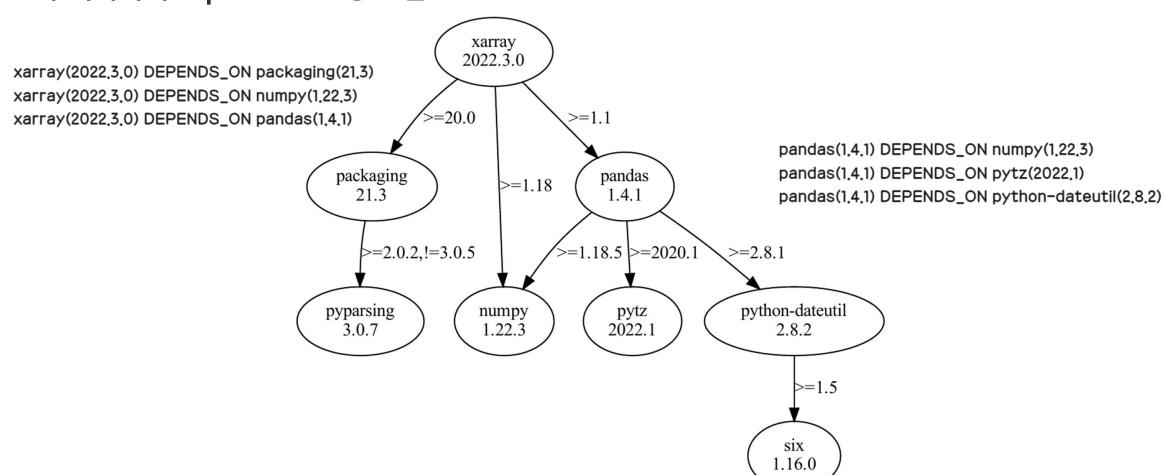


Table 1: Mapping baseline component information to existing formats

Relationship 정보

• 각 패키지의 dependencies 정보 필요



FOSSLight Scanner Dependencies

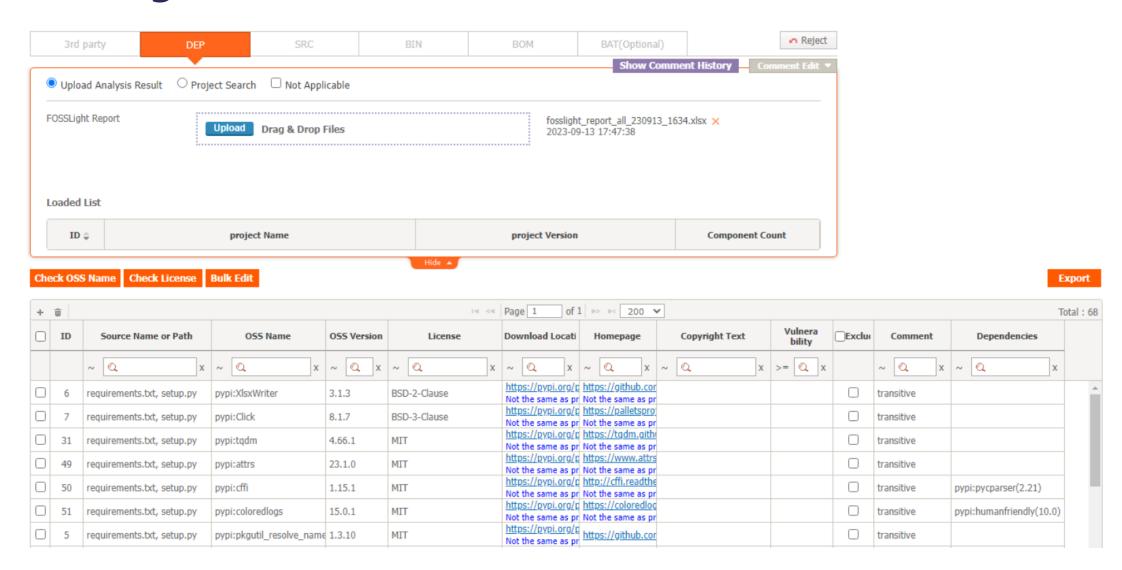
FOSSLight Dependency Scanner

• FOSSLight Dependency Scanner dependencies 정보 추가

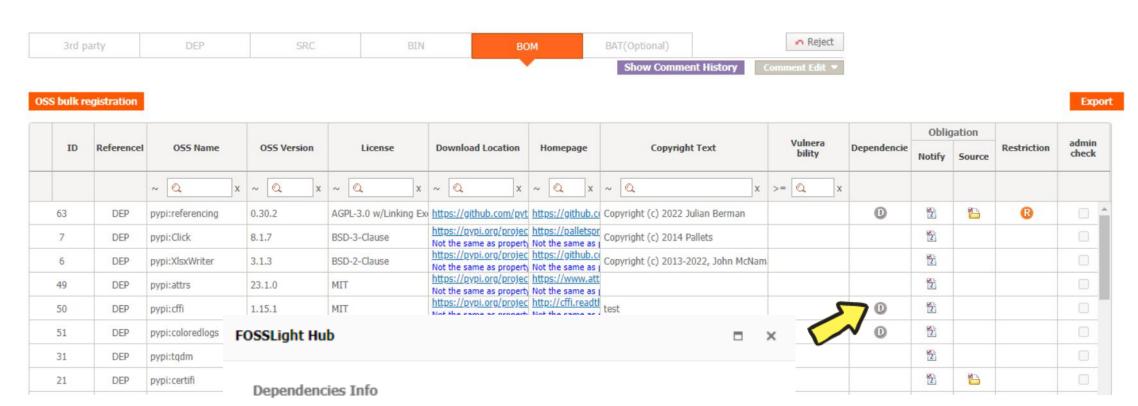
ID S	Source Name or P	OSS Name	OSS Versi	License	Download Location	Homepage	Copyri Exclu	Commen	Dependencies
1	oackage.json	npm:verror	1.10.0	MIT	https://github.com/davepacheco/node-verror	https://www.npmjs.com/package/verror		transitive	npm:assert-plus(1.0.0),npm:core-util-is(1.0.2),npm:extsprintf(1.3.0)
2	oackage.json	npm:@trysound/sax	0.2.0	ISC	https://github.com/svg/sax	https://www.npmjs.com/package/@trysound/sax		transitive	
3	oackage.json	npm:ajv	6.12.6	MIT	https://github.com/ajv-validator/ajv	https://www.npmjs.com/package/ajv		transitive	npm:fast-deep-equal (3.1.3), npm:fast-json-stable-string if y (2.1.0), npm:json-schema-tra
4	oackage.json	npm:ansi-escapes	3.2.0	MIT	https://github.com/sindresorhus/ansi-escapes	https://www.npmjs.com/package/ansi-escapes		transitive	
5	oackage.json	npm:ansi-regex	3.0.1	MIT	https://github.com/chalk/ansi-regex	https://www.npmjs.com/package/ansi-regex		transitive	
6	oackage.json	npm:ansi-styles	3.2.1	MIT	https://github.com/chalk/ansi-styles	https://www.npmjs.com/package/ansi-styles		transitive	npm:color-convert(1.9.3)
7	oackage.json	npm:asn1	0.2.6	MIT	https://github.com/joyent/node-asn1	https://www.npmjs.com/package/asn1		transitive	npm:safer-buffer(2.1.2)
15	oackage.json	npm:browserslist	4.21.8	MIT	https://github.com/browserslist/browserslist	https://www.npmjs.com/package/browserslist		transitive	npm:caniuse-lite(1.0.30001502),npm:electron-to-chromium(1.4.428),npm:node-releas
16	oackage.json	npm:caniuse-api	3.0.0	MIT	https://github.com/nyalab/caniuse-api	https://www.npmjs.com/package/caniuse-api		transitive	npm:browserslist(4.21.8),npm:caniuse-lite(1.0.30001502),npm:lodash.memoize(4.1.2),r
17	oackage.json	npm:caniuse-lite	1.0.300015	CC-BY-4.0	https://github.com/browserslist/caniuse-lite	https://www.npmjs.com/package/caniuse-lite		transitive	
18	oackage.json	npm:caseless	0.12.0	Apache-2.	https://github.com/mikeal/caseless	https://www.npmjs.com/package/caseless		transitive	
19	oackage.json	npm:chalk	2.4.2	MIT	https://github.com/chalk/chalk	https://www.npmjs.com/package/chalk		transitive	npm:ansi-styles(3.2.1),npm:escape-string-regexp(1.0.5),npm:supports-color(5.5.0)
26	oackage.json	npm:combined-stream	1.0.8	MIT	https://github.com/felixge/node-combined-stream	https://www.npmjs.com/package/combined-stream	<u>n</u>	transitive	npm:delayed-stream(1.0.0)
27	oackage.json	npm:commander	7.2.0	MIT	https://github.com/tj/commander.js	https://www.npmjs.com/package/commander		transitive	
28	oackage.json	npm:copy-anything	2.0.6	MIT	https://github.com/mesqueeb/copy-anything	https://www.npmjs.com/package/copy-anything		direct	npm:is-what(3.14.1)
37	oackage.json	npm:cssnano-utils	4.0.0	MIT	https://github.com/cssnano/cssnano	https://www.npmjs.com/package/cssnano-utils		transitive	npm:postcss(8.4.24)
38	oackage.json	npm:cssnano	6.0.1	MIT	https://github.com/cssnano/cssnano	https://www.npmjs.com/package/cssnano		direct	npm:cssnano-preset-default(6.0.1),npm:lilconfig(2.1.0),npm:postcss(8.4.24)
39	oackage.json	npm:csso	5.0.5	MIT	https://github.com/css/csso	https://www.npmjs.com/package/csso		transitive	npm:css-tree(2.2.1)
49	oackage.json	npm:entities	4.5.0	BSD-2-Cla	https://github.com/fb55/entities	https://www.npmjs.com/package/entities		transitive	
76	oackage.json	npm:lge-example	1.0.0	Apache-2.	https://github.com/LGE-OSS/example	https://www.npmjs.com/package/lge-example		root pack	npm:copy-anything(2.0.6),npm:cssnano(6.0.1),npm:postcss-plugins(1.10.1)
77	oackage.json	npm:lilconfig	2.1.0	MIT	https://github.com/antonk52/lilconfig	https://www.npmjs.com/package/lilconfig		transitive	

FOSSLight Hub DEP 추가

FOSSLight Hub DEP 탭 추가

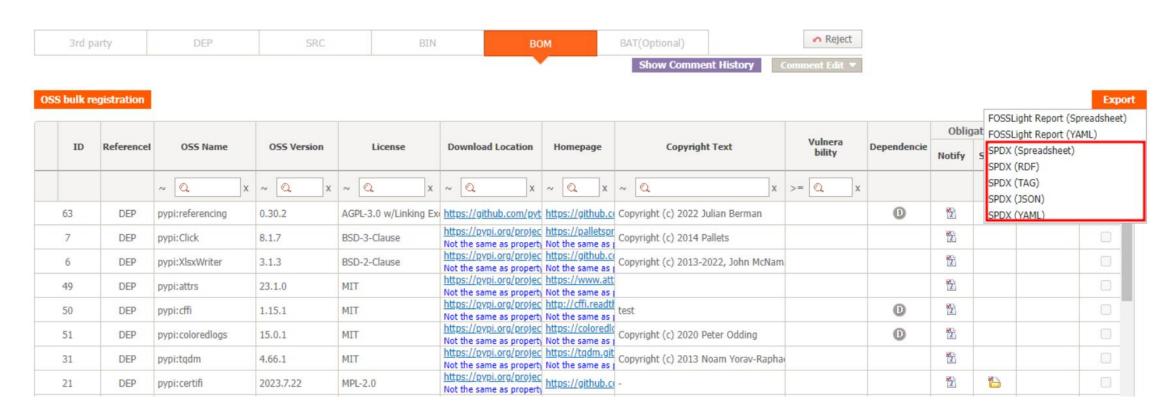


BOM 탭 Dependencies 정보



OSS name	OSS version	License	
pypi:attrs	23.1.0	MIT	
pypi:rpds-py	0.10.2	AML	

SPDX Relationship 정보 추가



SPDX Relationship 정보 출력

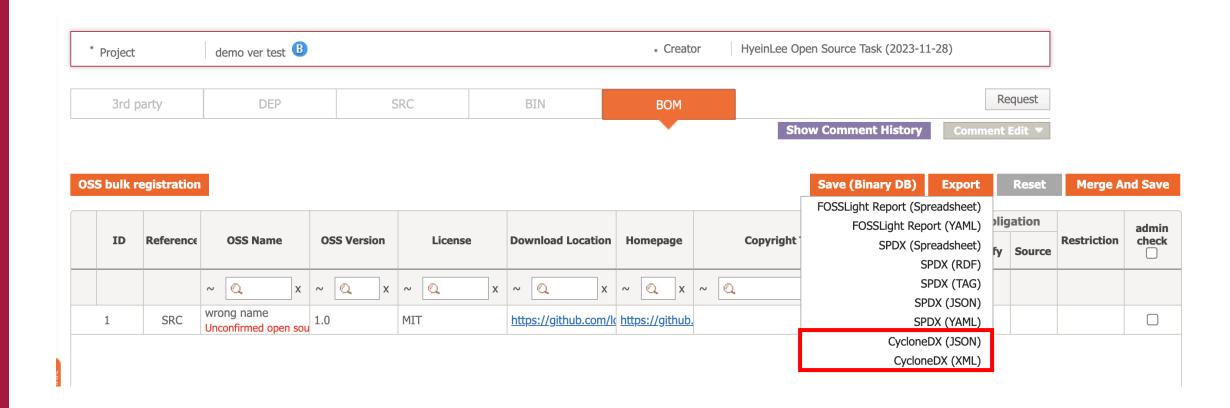
```
SPDXRdf-HiCompany-1.0.tag ×
  255 ## Package Information
256 PackageName: pypi:beautifulsoup4
257 SPDXID: SPDXRef-Package-42671
258 PackageVersion: 4.12.2
259 PackageSupplier: Person: ""
260 PackageOriginator: Organization: ""
261 PackageDownloadLocation: https://pypi.org/project/beautifulsoup4/4.12.2
262 PackageHomePage: https://www.crummy.com/software/BeautifulSoup/bs4
263 PackageLicenseConcluded: MIT
264 ## License information from files
265 PackageLicenseInfoFromFiles: MIT
266 PackageLicenseDeclared: MIT
267 PackageCopyrightText: <text>Copyright (c) 2004-2022 Leonard Richardson
268 Copyright (c) 2006-2013 James Graham and other contributors
269 Copyright (c) 2018 Isaac Muse</text>
270 ## Relationships
Relationship: SPDXRef-Package-42671 DEPENDS ON SPDXRef-Package-42666
272 FilesAnalyzed: false
274 ## Package Information
275 PackageName: pypi:binaryornot
276 SPDXID: SPDXRef-Package-28822
277 PackageVersion: 0.4.4
278 PackageSupplier: Person: ""
279 PackageOriginator: Organization: ""
280 PackageDownloadLocation: https://pypi.org/project/binaryornot/0.4.4
281 PackageHomePage: https://github.com/audreyr/binaryornot
282 PackageLicenseConcluded: BSD-3-Clause
283 ## License information from files
284 PackageLicenseInfoFromFiles: BSD-3-Clause
285 PackageLicenseDeclared: BSD-3-Clause
286 PackageCopyrightText: <text>Copyright (c) 2013, Audrey Roy</text>
287 ## Relationships
Relationship: SPDXRef-Package-28822 DEPENDS ON SPDXRef-Package-42669
289 FilesAnalyzed: false
```

FOSSLight Hub CycloneDX 지원

CycloneDX 양식 지원



CycloneDX 양식 지원

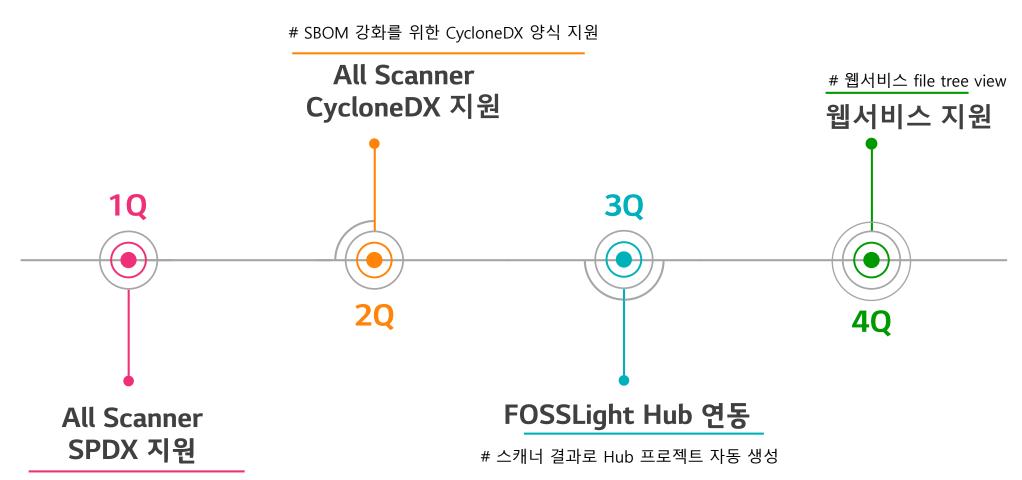


CycloneDX 예

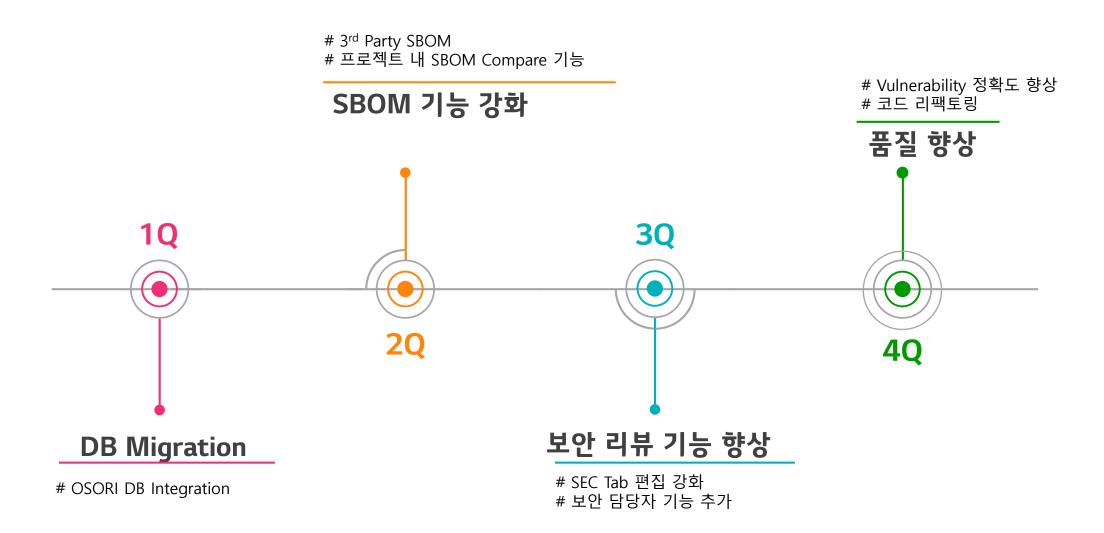
```
"$schema": "http://cyclonedx.org/schema/bom-1.2b.schema.json",
"bomFormat": "CycloneDX",
"specVersion": "1.2",
"version": 1,
"metadata": {
    "tools": [
            "vendor": "cyclonedx",
            "name": "cyclonedx-php-composer",
            "version": "in-dev"
    ],
    "component": {
        "bom-ref": "cyclonedx/cyclonedx-php-composer-demo-dev-master",
        "type": "application",
       "name": "cyclonedx-php-composer-demo",
        "version": "dev-master",
        "group": "cyclonedx",
        "description": "demo of cyclonedx/cyclonedx-php-composer with a pinned version of laravel/framework",
        "author": "Jan Kowalleck",
        "purl": "pkg:composer/cyclonedx/cyclonedx-php-composer-demo@dev-master"
},
"components": [
        "bom-ref": "asm89/stack-cors-1.3.0.0",
        "type": "library",
        "name": "stack-cors",
        "version": "1.3.0",
        "description": "Cross-origin resource sharing library and stack middleware",
       "author": "Alexander",
        "licenses": [
                "license": {
                   "id": "MIT"
        "purl": "pkg:composer/asm89/stack-cors@1.3.0",
```

2024 FOSSLight Roadmap

FOSSLight Scanner 2024



FOSSLight Hub 2024



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Thank You!