입문자를 위한 FOSSLight 소개

FOSSLight Hub

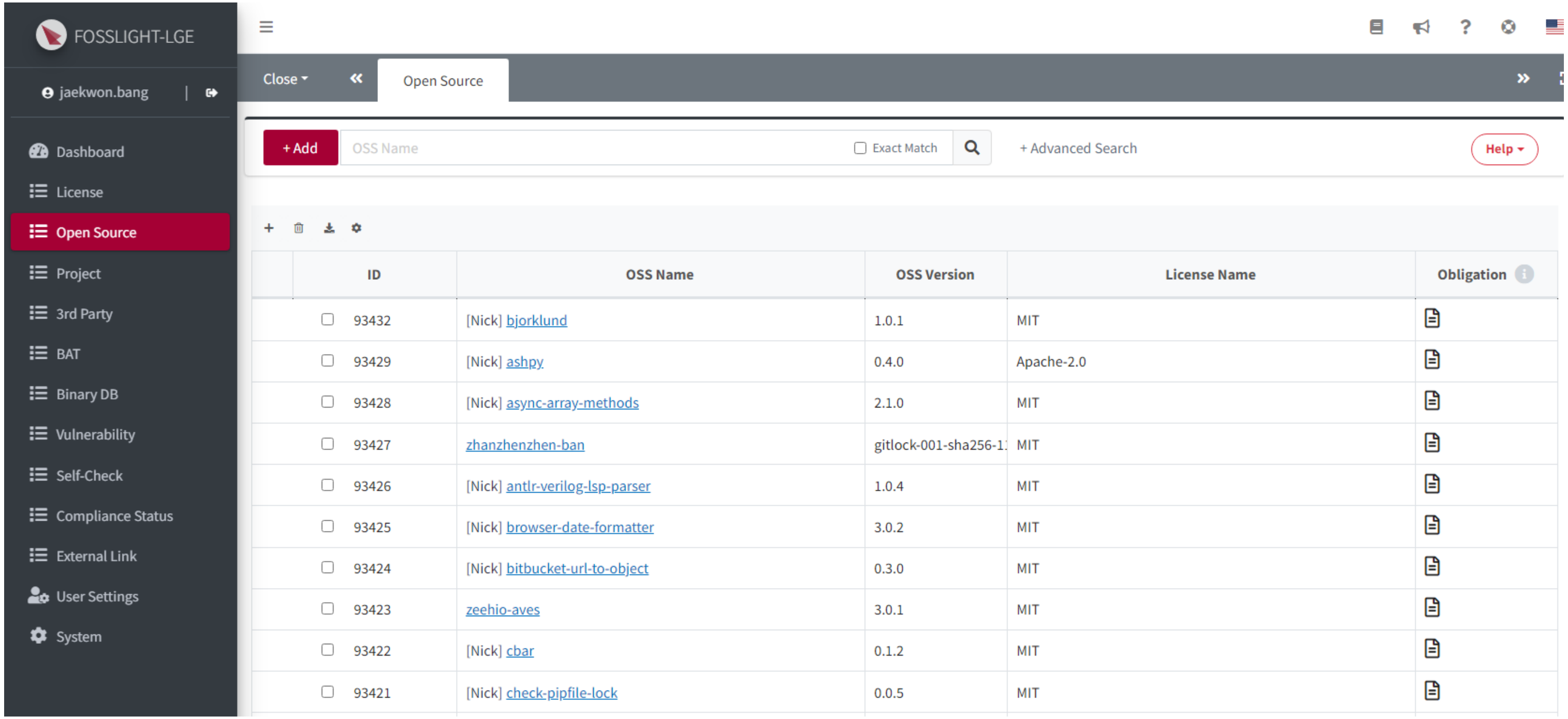
LG전자 최혜성

LG Open Source

FOSSLight Hub

오픈소스 관리

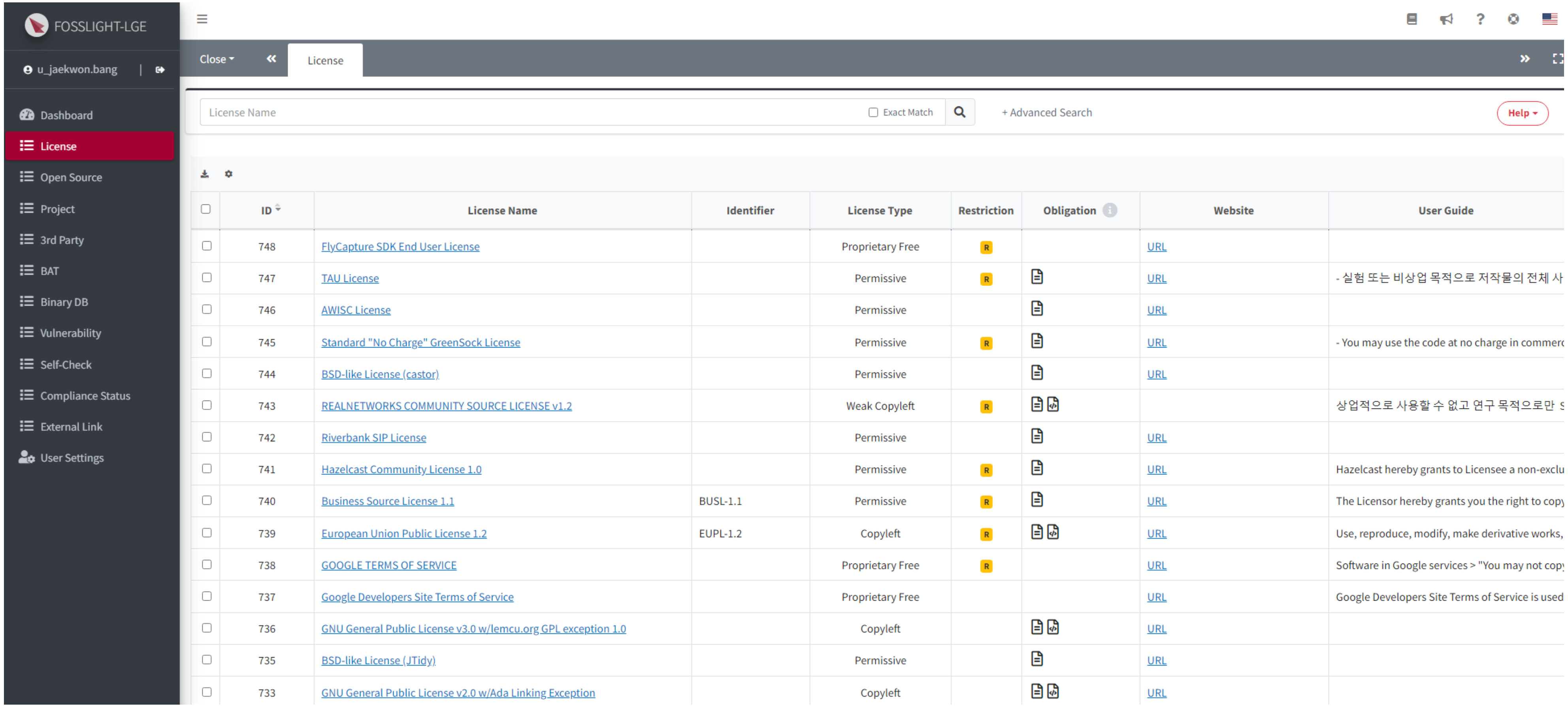
- 오픈소스 버전 별로 라이선스 및 의무 사항 관리



	ID	OSS Name	OSS Version	License Name	Obligation
□	93432	[Nick] bjorklund	1.0.1	MIT	📄
□	93429	[Nick] ashpy	0.4.0	Apache-2.0	📄
□	93428	[Nick] async-array-methods	2.1.0	MIT	📄
□	93427	zhanzhenzhen-ban	gitlock-001-sha256-1	MIT	📄
□	93426	[Nick] antlr-verilog-lsp-parser	1.0.4	MIT	📄
□	93425	[Nick] browser-date-formatter	3.0.2	MIT	📄
□	93424	[Nick] bitbucket-url-to-object	0.3.0	MIT	📄
□	93423	zeehio-aves	3.0.1	MIT	📄
□	93422	[Nick] cbar	0.1.2	MIT	📄
□	93421	[Nick] check-pipfile-lock	0.0.5	MIT	📄

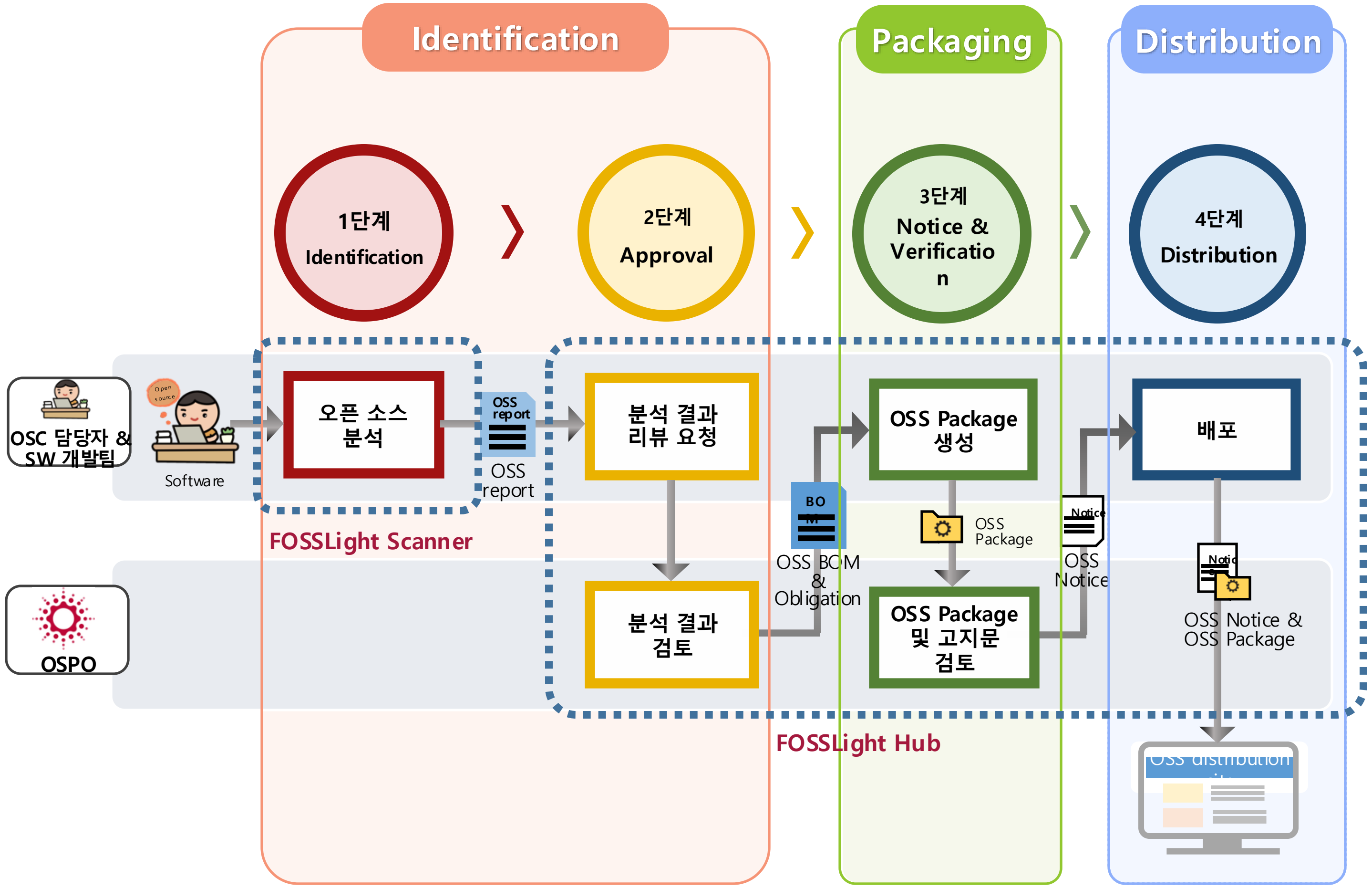
라이선스 관리

- 라이선스 별로 의무사항, 제약사항 관리



□	ID	License Name	Identifier	License Type	Restriction	Obligation	Website	User Guide
□	748	FlyCapture SDK End User License		Proprietary Free	R		URL	
□	747	TAU License		Permissive	R	📄	URL	- 실험 또는 비상업 목적으로 저작물의 전체 사
□	746	AWISC License		Permissive		📄	URL	
□	745	Standard "No Charge" GreenSock License		Permissive	R	📄	URL	- You may use the code at no charge in commerc
□	744	BSD-like License (castor)		Permissive		📄	URL	
□	743	REALNETWORKS COMMUNITY SOURCE LICENSE v1.2		Weak Copyleft	R	📄 📄		상업적으로 사용할 수 없고 연구 목적으로만
□	742	Riverbank SIP License		Permissive		📄	URL	
□	741	Hazelcast Community License 1.0		Permissive	R	📄	URL	Hazelcast hereby grants to Licensee a non-exclu
□	740	Business Source License 1.1	BUSL-1.1	Permissive	R	📄	URL	The Licensor hereby grants you the right to copy
□	739	European Union Public License 1.2	EUPL-1.2	Copyleft	R	📄 📄	URL	Use, reproduce, modify, make derivative works,
□	738	GOOGLE TERMS OF SERVICE		Proprietary Free	R		URL	Software in Google services > "You may not copy
□	737	Google Developers Site Terms of Service		Proprietary Free			URL	Google Developers Site Terms of Service is used
□	736	GNU General Public License v3.0 w/lemcu.org GPL exception 1.0		Copyleft		📄 📄	URL	
□	735	BSD-like License (JTidy)		Permissive		📄	URL	
□	733	GNU General Public License v2.0 w/Ada Linking Exception		Copyleft		📄 📄	URL	

참고) LG전자 오픈소스 컴플라이언스 프로세스



Identification

Packaging

Distribution

1단계
Identification

2단계
Approval

3단계
Notice & Verificatio
n

4단계
Distribution

OSC 담당자 & SW 개발팀

Software

오픈 소스 분석

OSS report

분석 결과 리뷰 요청

분석 결과 검토

OSS BOM & Obligation

OSS Package 생성

OSS Package

OSS Package 및 고지문 검토

OSS Notice

배포

OSS Notice & OSS Package

OSS distribution

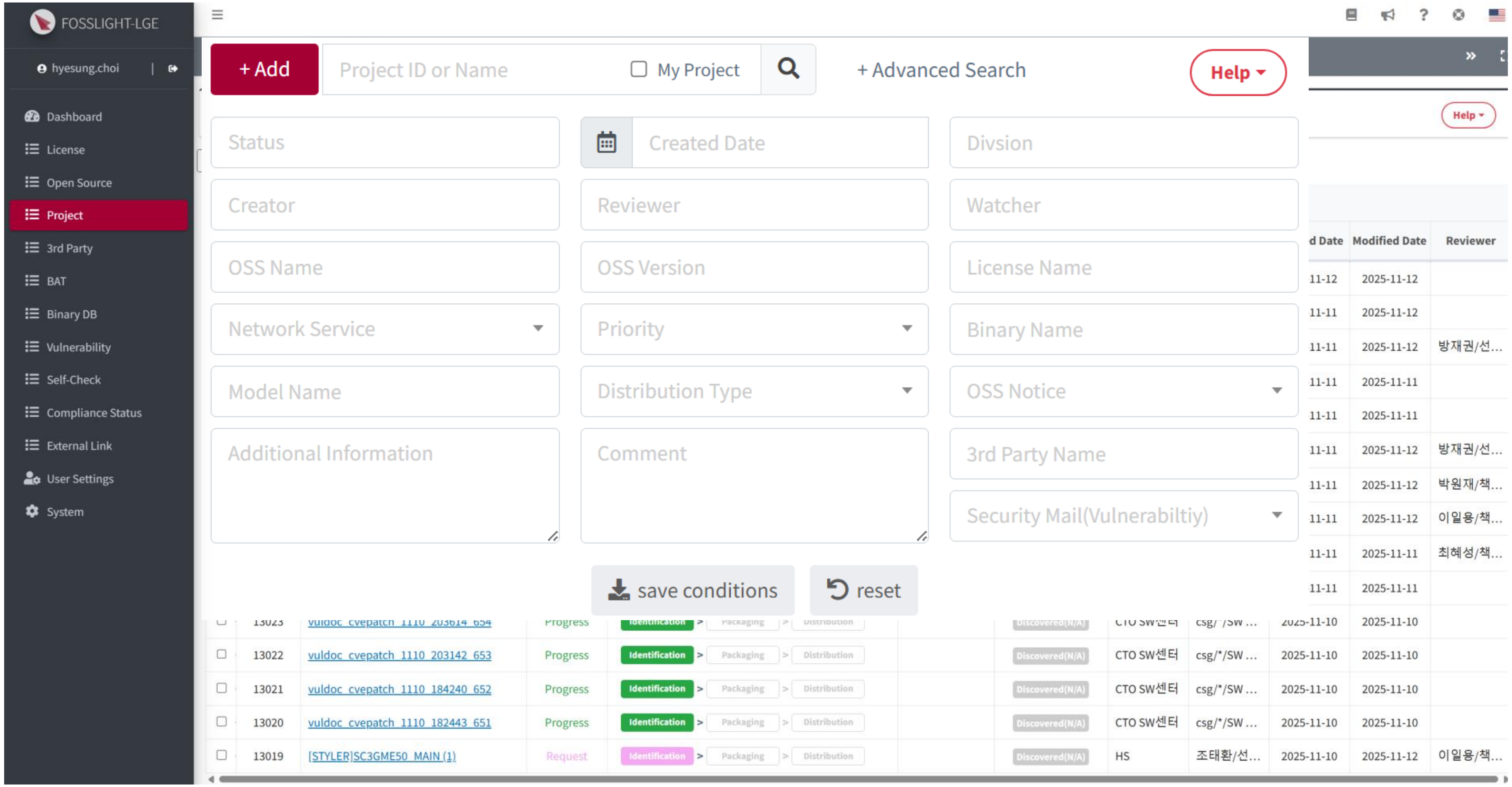
OSPO

FOSSLight Scanner

FOSSLight Hub

컴플라이언스 프로세스 관리

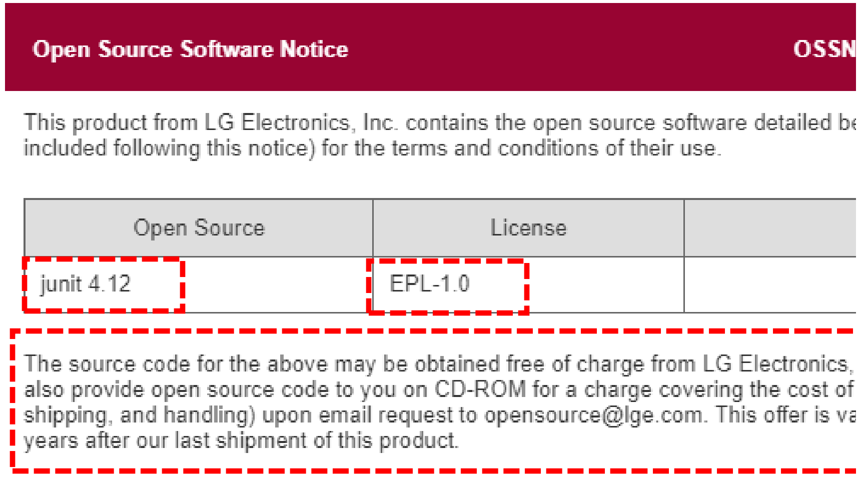
- 컴플라이언스 프로세스 단계별 진행 현황 및 이력 조회
- 프로젝트, 부서, 오픈소스별 검색



										d Date	Modified Date	Reviewer
										11-12	2025-11-12	
										11-11	2025-11-12	
										11-11	2025-11-12	방재권/선...
										11-11	2025-11-11	
										11-11	2025-11-11	
										11-11	2025-11-12	방재권/선...
										11-11	2025-11-12	박원재/책...
										11-11	2025-11-12	이일용/책...
										11-11	2025-11-11	최혜성/책...
										11-11	2025-11-11	
□	13023	vuldoc_cvepatch_1110_203614_654	Progress	Identification > Packaging > Distribution	Discovered(N/A)	CTO SW센터	csg/*/SW ...			2025-11-10	2025-11-10	
□	13022	vuldoc_cvepatch_1110_203142_653	Progress	Identification > Packaging > Distribution	Discovered(N/A)	CTO SW센터	csg/*/SW ...			2025-11-10	2025-11-10	
□	13021	vuldoc_cvepatch_1110_184240_652	Progress	Identification > Packaging > Distribution	Discovered(N/A)	CTO SW센터	csg/*/SW ...			2025-11-10	2025-11-10	
□	13020	vuldoc_cvepatch_1110_182443_651	Progress	Identification > Packaging > Distribution	Discovered(N/A)	CTO SW센터	csg/*/SW ...			2025-11-10	2025-11-10	
□	13019	[STYLER]SC3GME50_MAIN (1)	Request	Identification > Packaging > Distribution	Discovered(N/A)	HS	조태환/선...			2025-11-10	2025-11-12	이일용/책...

OSS(Open Source Software) 고지문 발급

- 사용된 오픈소스와 저작권, 라이선스를 고지하기 위한 OSS 고지문 발급
- 공개 대상 소스코드를 취합한 OSS 패키지 리뷰
- 지원 포맷 : HTML, TEXT, SPDX, CycloneDX

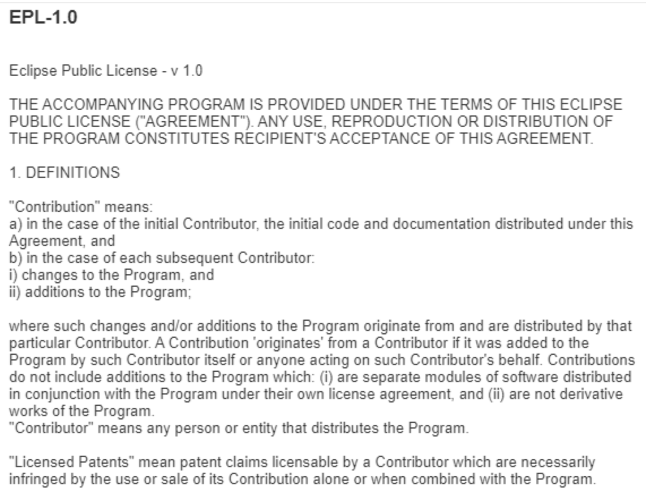


Open Source Software Notice OSSN

This product from LG Electronics, Inc. contains the open source software detailed be included following this notice) for the terms and conditions of their use.

Open Source	License	
junit 4.12	EPL-1.0	

The source code for the above may be obtained free of charge from LG Electronics, also provide open source code to you on CD-ROM for a charge covering the cost of shipping, and handling) upon email request to opensource@lge.com. This offer is va years after our last shipment of this product.



EPL-1.0

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

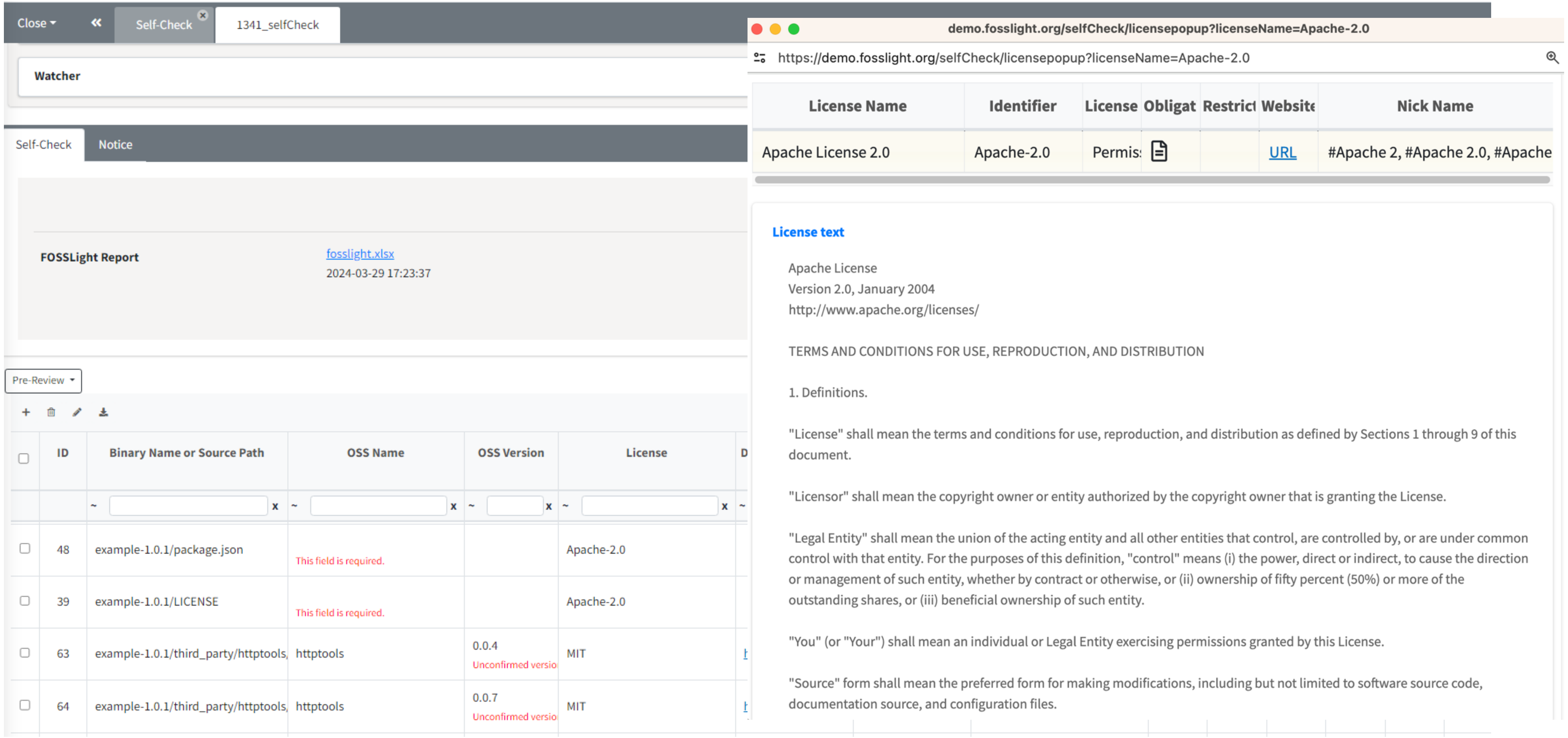
"Contribution" means:
a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
b) in the case of each subsequent Contributor:
i) changes to the Program, and
ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

사전 점검

- 프로젝트에서 사용할 오픈소스 및 라이선스 리스트 업로드 후 의무사항, 보안 취약점 확인 가능



FOSSLight Report fosslight.xlsx
2024-03-29 17:23:37

□	ID	Binary Name or Source Path	OSS Name	OSS Version	License	D
□	48	example-1.0.1/package.json	This field is required.		Apache-2.0	
□	39	example-1.0.1/LICENSE	This field is required.		Apache-2.0	
□	63	example-1.0.1/third_party/httptools,	httptools	0.0.4 Unconfirmed versio	MIT	I
□	64	example-1.0.1/third_party/httptools,	httptools	0.0.7 Unconfirmed versio	MIT	I

demo.fosslight.org/selfCheck/licensepopup?licenseName=Apache-2.0

https://demo.fosslight.org/selfCheck/licensepopup?licenseName=Apache-2.0

License Name	Identifier	License	Obligat	Restrict	Website	Nick Name
Apache License 2.0	Apache-2.0	Permis:	🗎		URL	#Apache 2, #Apache 2.0, #Apache

License text

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

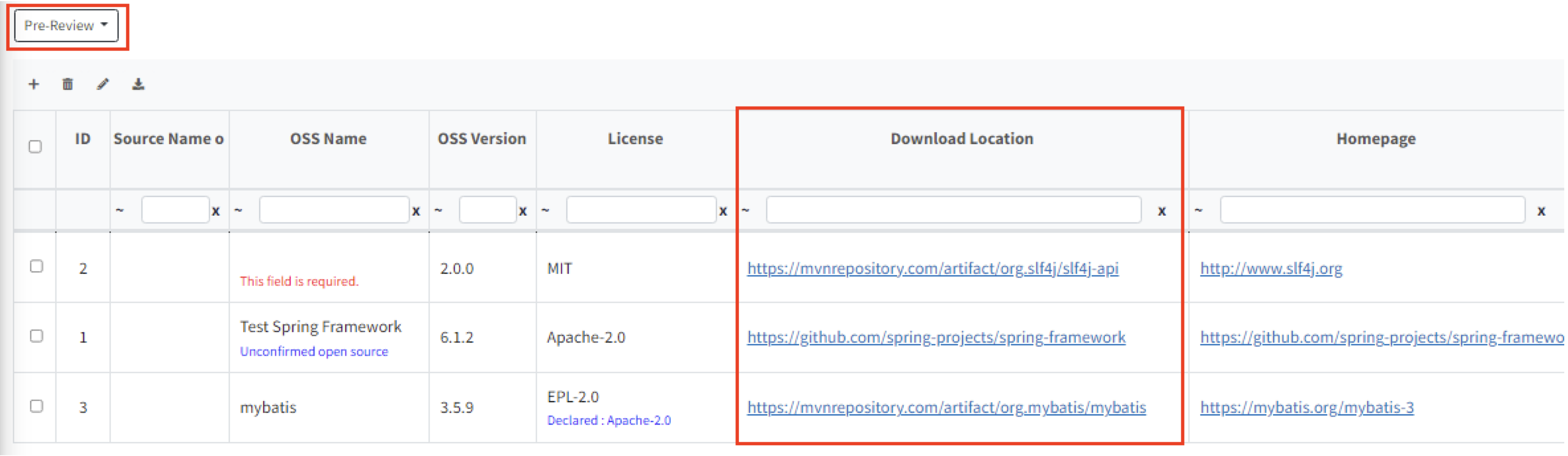
"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

사전 점검 (Pre-Review)

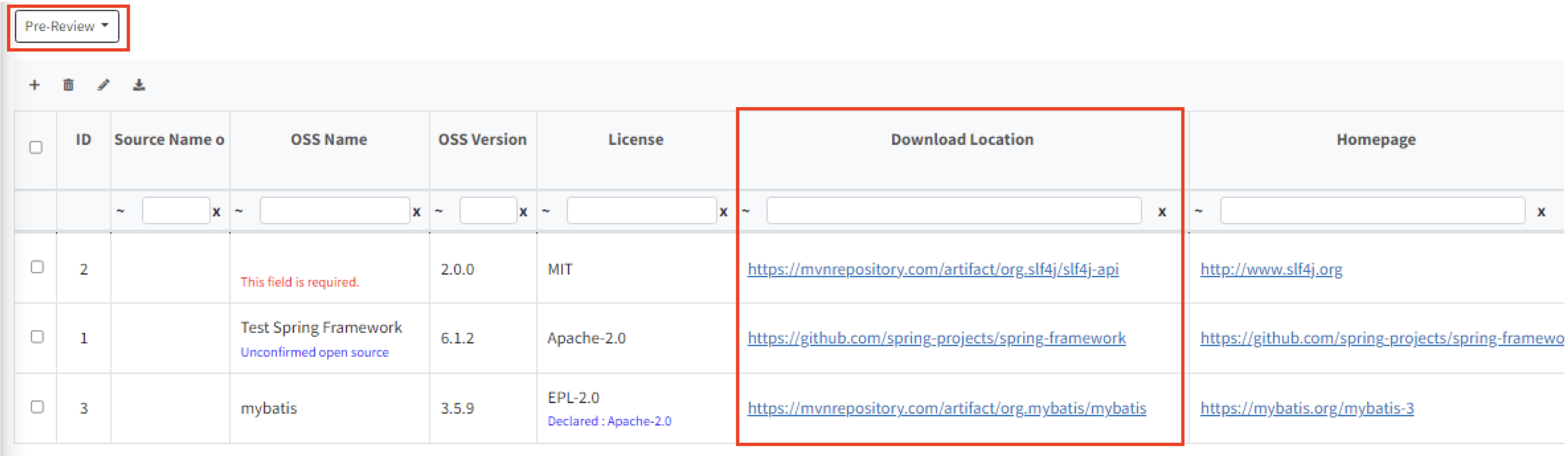
- 다운로드 경로(URL)로 오픈소스 및 라이선스 정보 확인 가능



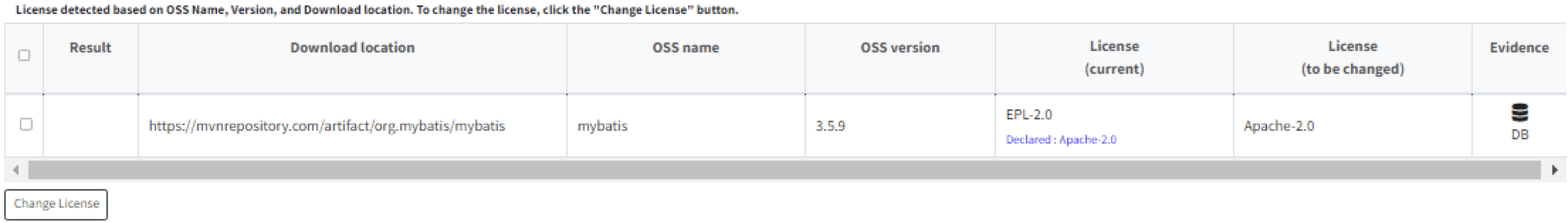
□	ID	Source Name o	OSS Name	OSS Version	License	Download Location	Homepage
□	2		This field is required.	2.0.0	MIT	https://mvnrepository.com/artifact/org.slf4j/slf4j-api	http://www.slf4j.org
□	1		Test Spring Framework Unconfirmed open source	6.1.2	Apache-2.0	https://github.com/spring-projects/spring-framework	https://github.com/spring-projects/spring-framewo
□	3		mybatis	3.5.9	EPL-2.0 Declared : Apache-2.0	https://mvnrepository.com/artifact/org.mybatis/mybatis	https://mybatis.org/mybatis-3

사전 점검 (Pre-Review)

- 다운로드 경로(URL)로 오픈소스 및 라이선스 정보 확인 가능



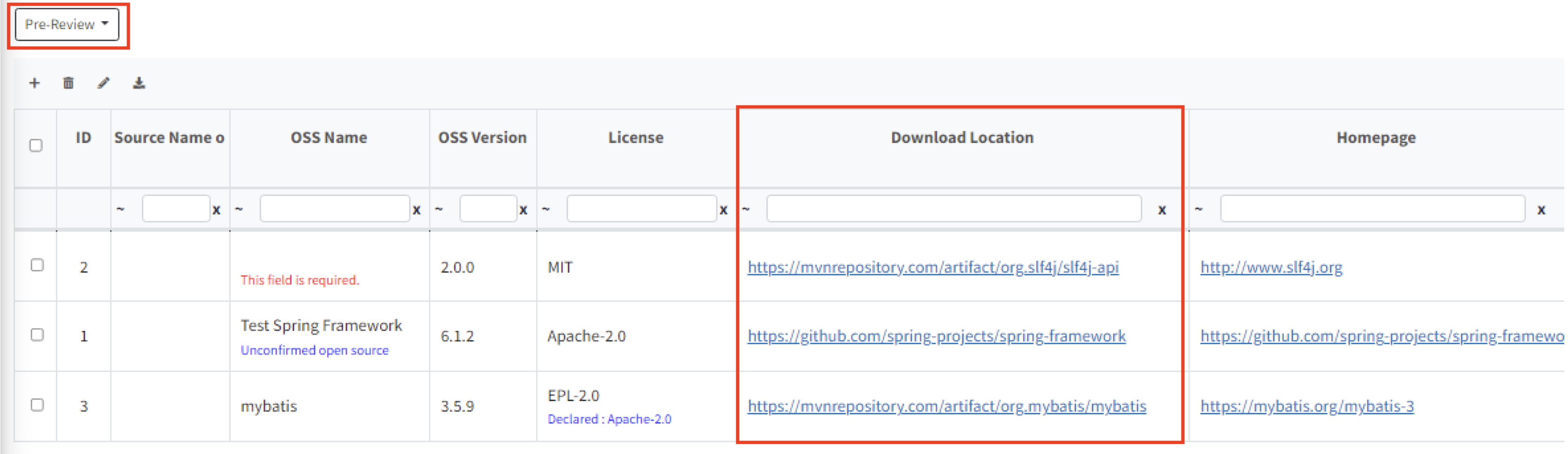
□	ID	Source Name o	OSS Name	OSS Version	License	Download Location	Homepage
		~ x	~ x	~ x	~ x	~ x	~ x
□	2		This field is required.	2.0.0	MIT	https://mvnrepository.com/artifact/org.slf4j/slf4j-api	http://www.slf4j.org
□	1		Test Spring Framework Unconfirmed open source	6.1.2	Apache-2.0	https://github.com/spring-projects/spring-framework	https://github.com/spring-projects/spring-framewo
□	3		mybatis	3.5.9	EPL-2.0 Declared : Apache-2.0	https://mvnrepository.com/artifact/org.mybatis/mybatis	https://mybatis.org/mybatis-3


License detected based on OSS Name, Version, and Download location. To change the license, click the "Change License" button.

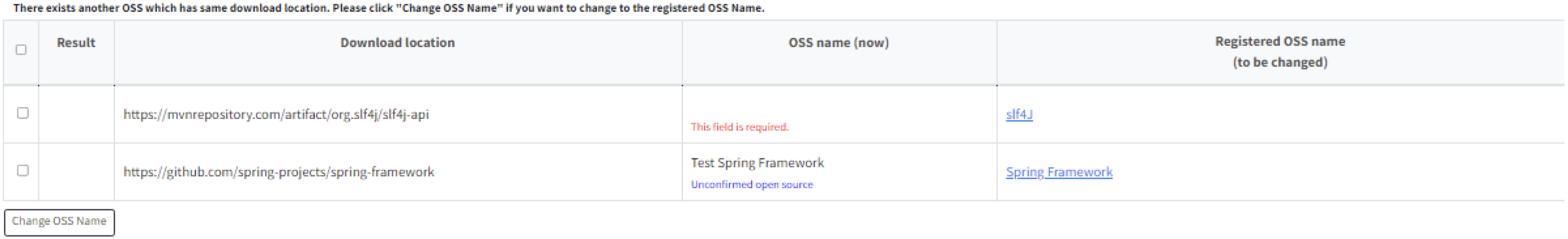
□	Result	Download location	OSS name	OSS version	License (current)	License (to be changed)	Evidence
□		https://mvnrepository.com/artifact/org.mybatis/mybatis	mybatis	3.5.9	EPL-2.0 Declared : Apache-2.0	Apache-2.0	DB

사전 점검 (Pre-Review)

- **다운로드 경로(URL)로 오픈소스 및 라이선스 정보 확인 가능**



□	ID	Source Name o	OSS Name	OSS Version	License	Download Location	Homepage
		~ x	~ x	~ x	~ x	~ x	~ x
□	2		This field is required.	2.0.0	MIT	https://mvnrepository.com/artifact/org.slf4j/slf4j-api	http://www.slf4j.org
□	1		Test Spring Framework Unconfirmed open source	6.1.2	Apache-2.0	https://github.com/spring-projects/spring-framework	https://github.com/spring-projects/spring-framewo
□	3		mybatis	3.5.9	EPL-2.0 Declared : Apache-2.0	https://mvnrepository.com/artifact/org.mybatis/mybatis	https://mybatis.org/mybatis-3

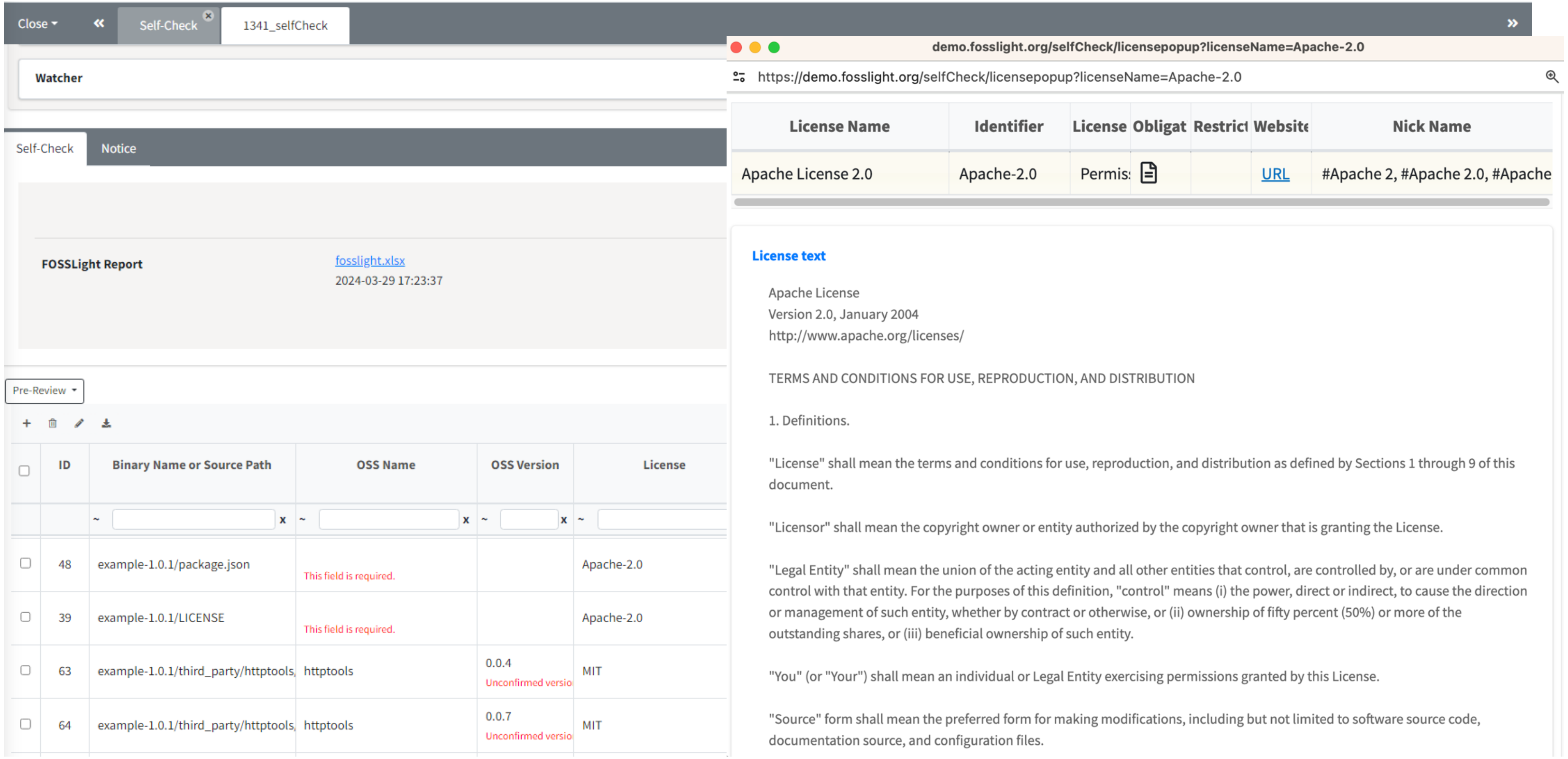


There exists another OSS which has same download location. Please click "Change OSS Name" if you want to change to the registered OSS Name.

□	Result	Download location	OSS name (now)	Registered OSS name (to be changed)
□		https://mvnrepository.com/artifact/org.slf4j/slf4j-api	This field is required.	slf4J
□		https://github.com/spring-projects/spring-framework	Test Spring Framework Unconfirmed open source	Spring Framework

사전 점검 (Pre-Review)

- 오픈소스 라이선스 의무 사항 확인 가능함



Watcher

FOSSLight Report fosslight.xlsx 2024-03-29 17:23:37

□	ID	Binary Name or Source Path	OSS Name	OSS Version	License
□	48	example-1.0.1/package.json	This field is required.		Apache-2.0
□	39	example-1.0.1/LICENSE	This field is required.		Apache-2.0
□	63	example-1.0.1/third_party/httptools,	httptools	0.0.4 Unconfirmed versio	MIT
□	64	example-1.0.1/third_party/httptools,	httptools	0.0.7 Unconfirmed versio	MIT

demo.fosslight.org/selfCheck/licensepopup?licenseName=Apache-2.0

https://demo.fosslight.org/selfCheck/licensepopup?licenseName=Apache-2.0

License Name	Identifier	License	Obligat	Restrict	Website	Nick Name
Apache License 2.0	Apache-2.0	Permis:	🗎		URL	#Apache 2, #Apache 2.0, #Apache

License text

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

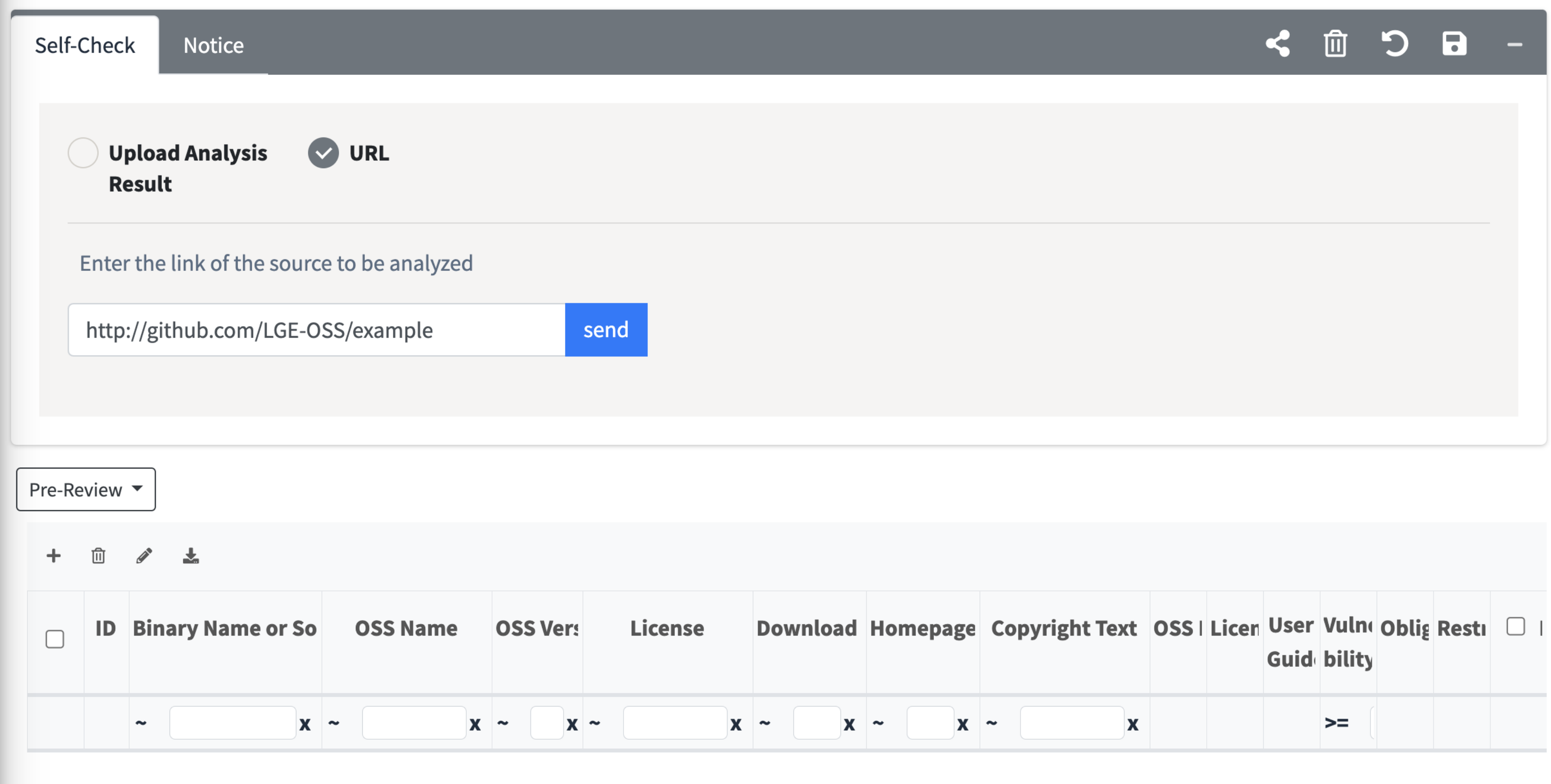
"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

LG Electronics Open Source Program Office

사전 점검 (오픈소스 분석)

- **Self-Check에 스캐닝 도구를 연동하여 소스 레포지토리 주소 입력만으로 오픈소스 라이선스 의무사항 확인 가능**



○ **Upload Analysis Result** ● **URL**

Enter the link of the source to be analyzed

http://github.com/LGE-OSS/example [send]

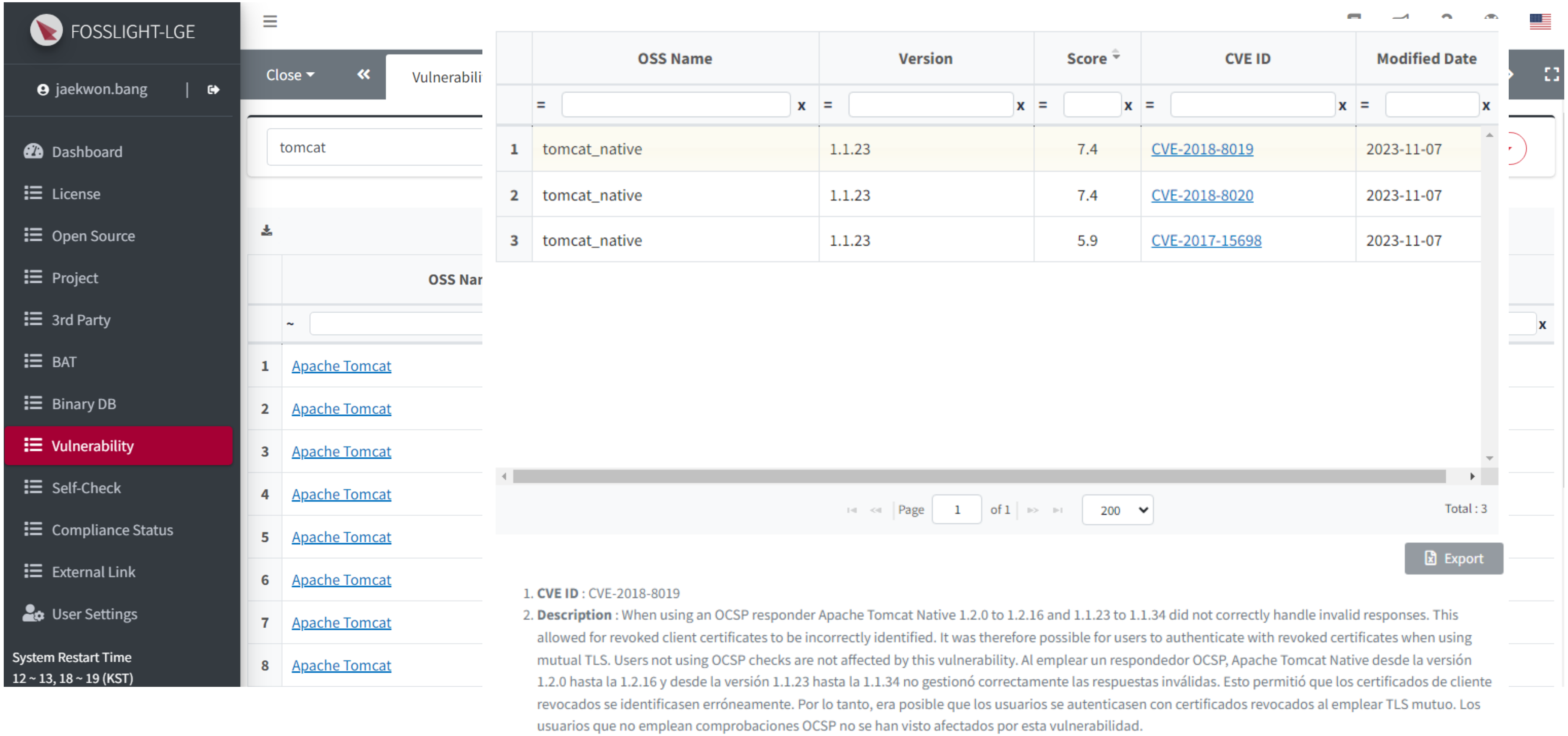
Pre-Review ▾

□	ID	Binary Name or So	OSS Name	OSS Vers	License	Download	Homepage	Copyright Text	OSS I	Licen	User Guid	Vuln bility	Oblig	Restr	□ I
		~ x	~ x	~ x	~ x	~ x	~ x	~ x				>=			

FOSSLight Hub로 보안 취약점 관리하기

보안 취약점 조회

- 오픈소스 버전별 보안 취약점 점수 및 상세 내용 확인 가능



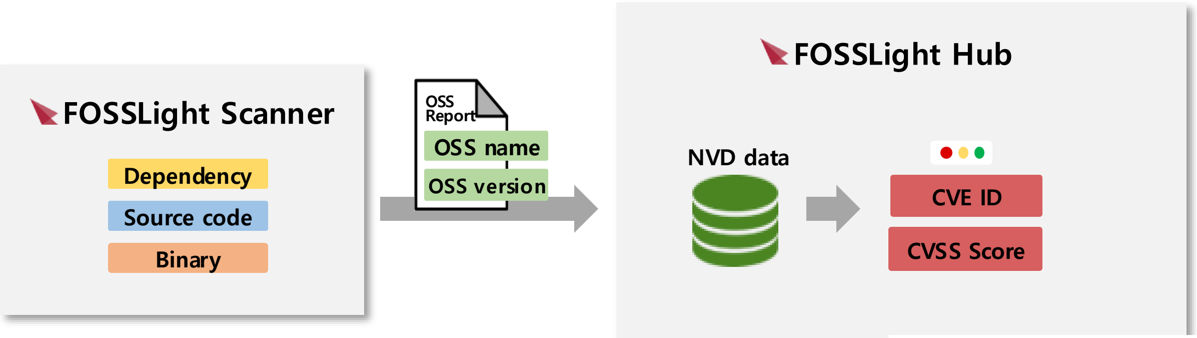
	OSS Nar
1	Apache Tomcat
2	Apache Tomcat
3	Apache Tomcat
4	Apache Tomcat
5	Apache Tomcat
6	Apache Tomcat
7	Apache Tomcat
8	Apache Tomcat

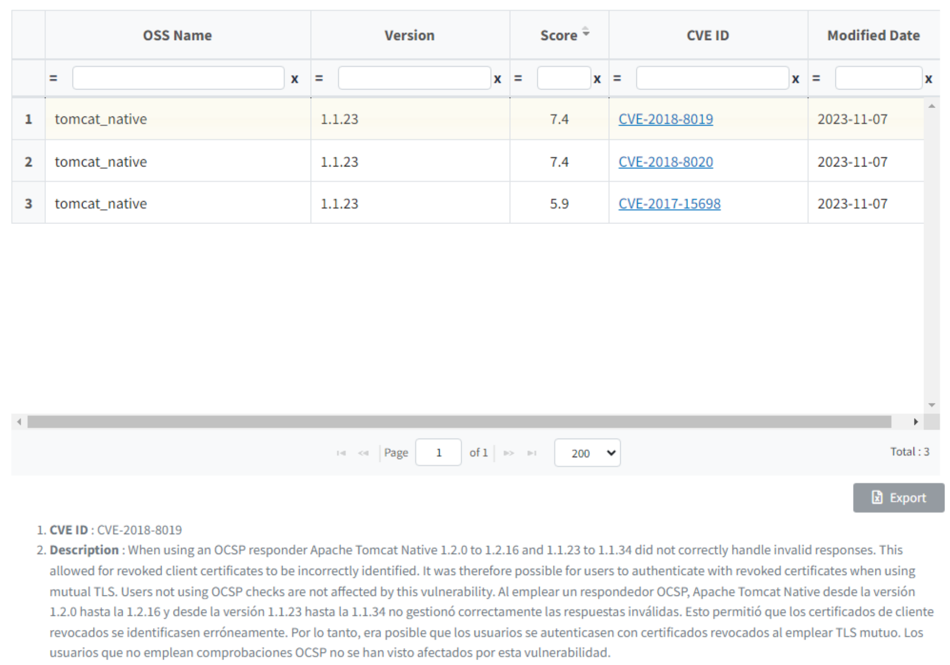
	OSS Name	Version	Score	CVE ID	Modified Date
1	tomcat_native	1.1.23	7.4	CVE-2018-8019	2023-11-07
2	tomcat_native	1.1.23	7.4	CVE-2018-8020	2023-11-07
3	tomcat_native	1.1.23	5.9	CVE-2017-15698	2023-11-07

1. **CVE ID** : CVE-2018-8019
2. **Description** : When using an OCSP responder Apache Tomcat Native 1.2.0 to 1.2.16 and 1.1.23 to 1.1.34 did not correctly handle invalid responses. This allowed for revoked client certificates to be incorrectly identified. It was therefore possible for users to authenticate with revoked certificates when using mutual TLS. Users not using OCSP checks are not affected by this vulnerability. Al emplear un respondedor OCSP, Apache Tomcat Native desde la versión 1.2.0 hasta la 1.2.16 y desde la versión 1.1.23 hasta la 1.1.34 no gestionó correctamente las respuestas inválidas. Esto permitió que los certificados de cliente revocados se identificasen erróneamente. Por lo tanto, era posible que los usuarios se autenticasen con certificados revocados al emplear TLS mutuo. Los usuarios que no emplean comprobaciones OCSP no se han visto afectados por esta vulnerabilidad.

보안 취약점 관리

- 오픈소스 분석한 결과를 FOSSLight Hub에 업로드하여 보안 취약점 조회 및 관리 가능





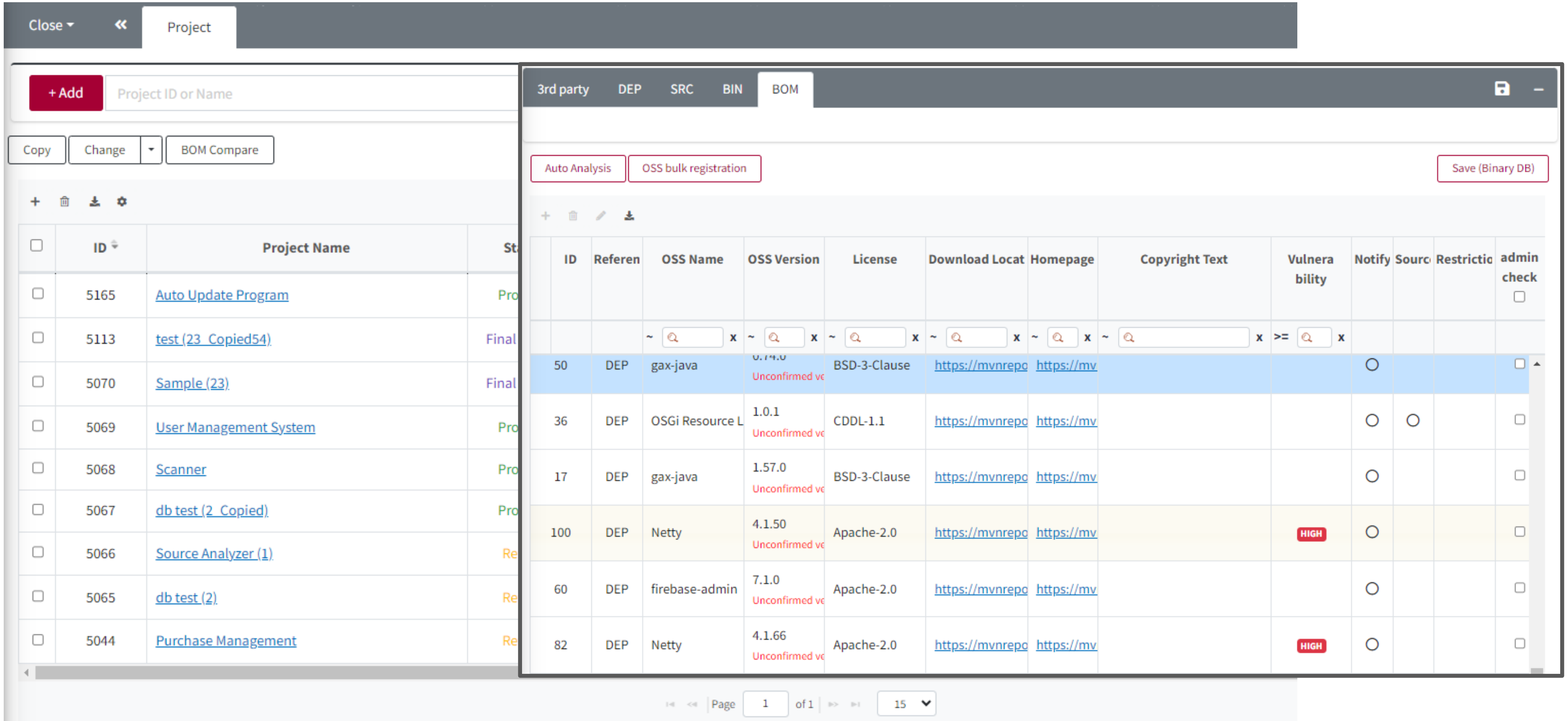
	OSS Name	Version	Score	CVE ID	Modified Date
1	tomcat_native	1.1.23	7.4	CVE-2018-8019	2023-11-07
2	tomcat_native	1.1.23	7.4	CVE-2018-8020	2023-11-07
3	tomcat_native	1.1.23	5.9	CVE-2017-15698	2023-11-07

1. **CVE ID** : CVE-2018-8019
2. **Description** : When using an OCSP responder Apache Tomcat Native 1.2.0 to 1.2.16 and 1.1.23 to 1.1.34 did not correctly handle invalid responses. This allowed for revoked client certificates to be incorrectly identified. It was therefore possible for users to authenticate with revoked certificates when using mutual TLS. Users not using OCSP checks are not affected by this vulnerability. Al emplear un respondedor OCSP, Apache Tomcat Native desde la versión 1.2.0 hasta la 1.2.16 y desde la versión 1.1.23 hasta la 1.1.34 no gestionó correctamente las respuestas inválidas. Esto permitió que los certificados de cliente revocados se identificasen erróneamente. Por lo tanto, era posible que los usuarios se autenticasen con certificados revocados al emplear TLS mutuo. Los usuarios que no emplean comprobaciones OCSP no se han visto afectados por esta vulnerabilidad.

LG Electronics Open Source Program Office

보안 취약점 확인

- 제품별 프로젝트 등록을 통한 보안 취약점 확인

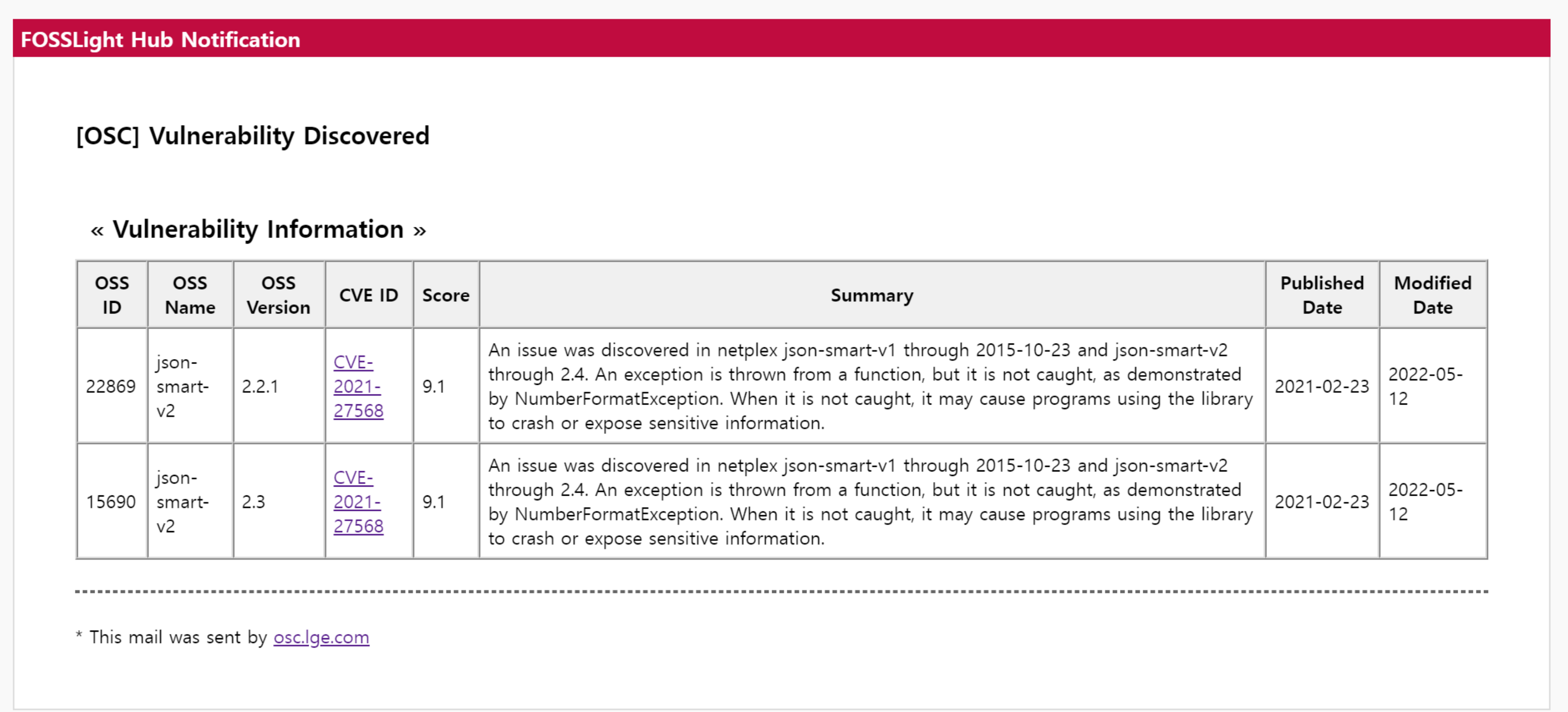


□	ID	Project Name	St
□	5165	Auto Update Program	Pro
□	5113	test (23_Copied54)	Final
□	5070	Sample (23)	Final
□	5069	User Management System	Pro
□	5068	Scanner	Pro
□	5067	db test (2_Copied)	Pro
□	5066	Source Analyzer (1)	Re
□	5065	db test (2)	Re
□	5044	Purchase Management	Re

ID	Referen	OSS Name	OSS Version	License	Download Locat	Homepage	Copyright Text	Vulnerability	Notify	Sourc	Restrictio	admin check □
50	DEP	gax-java	0.74.0 Unconfirmed ve	BSD-3-Clause	https://mvnrepo	https://mv			○			□
36	DEP	OSGi Resource L	1.0.1 Unconfirmed ve	CDDL-1.1	https://mvnrepo	https://mv			○	○		□
17	DEP	gax-java	1.57.0 Unconfirmed ve	BSD-3-Clause	https://mvnrepo	https://mv			○			□
100	DEP	Netty	4.1.50 Unconfirmed ve	Apache-2.0	https://mvnrepo	https://mv		HIGH	○			□
60	DEP	firebase-admin	7.1.0 Unconfirmed ve	Apache-2.0	https://mvnrepo	https://mv			○			□
82	DEP	Netty	4.1.66 Unconfirmed ve	Apache-2.0	https://mvnrepo	https://mv		HIGH	○			□

보안 취약점 실시간 알림

- 보안 취약점 변경 사항 발생 시 관리자 및 프로젝트 담당자에게 이메일 알림



FOSSLight Hub Notification

[OSC] Vulnerability Discovered

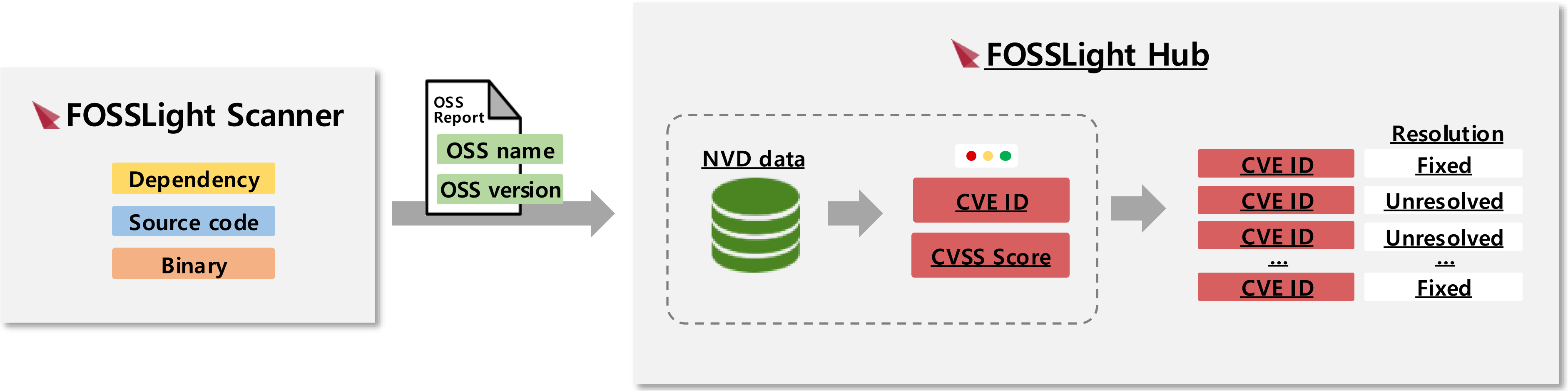
« Vulnerability Information »

OSS ID	OSS Name	OSS Version	CVE ID	Score	Summary	Published Date	Modified Date
22869	json-smart-v2	2.2.1	CVE-2021-27568	9.1	An issue was discovered in netplex json-smart-v1 through 2015-10-23 and json-smart-v2 through 2.4. An exception is thrown from a function, but it is not caught, as demonstrated by NumberFormatException. When it is not caught, it may cause programs using the library to crash or expose sensitive information.	2021-02-23	2022-05-12
15690	json-smart-v2	2.3	CVE-2021-27568	9.1	An issue was discovered in netplex json-smart-v1 through 2015-10-23 and json-smart-v2 through 2.4. An exception is thrown from a function, but it is not caught, as demonstrated by NumberFormatException. When it is not caught, it may cause programs using the library to crash or expose sensitive information.	2021-02-23	2022-05-12

* This mail was sent by osc.lge.com

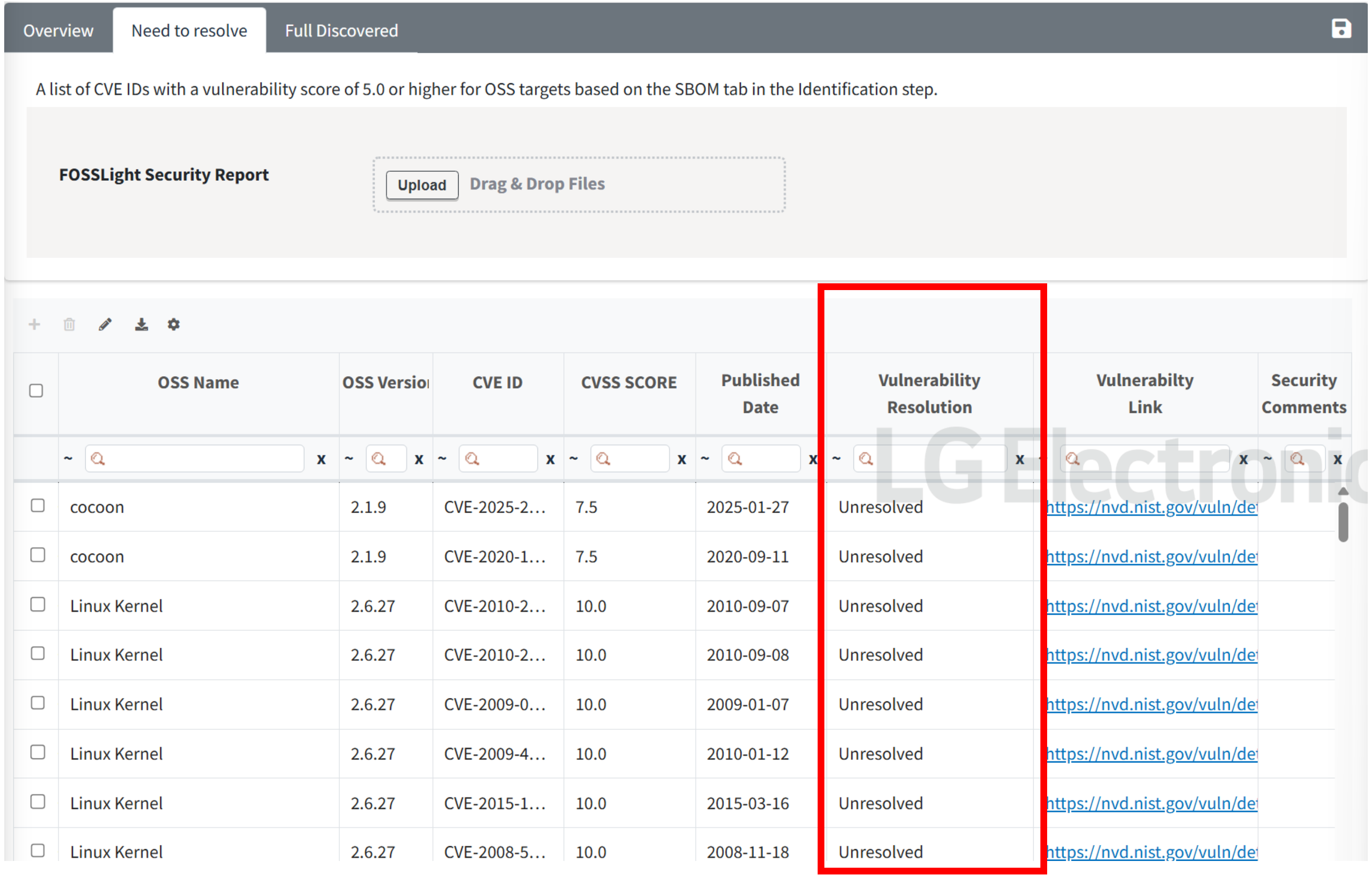
제품 보안취약점 수정 여부 관리 기능

- 프로젝트별 발견된 보안 취약점 확인과 해결 상태 관리 가능



Security 탭

- 프로젝트별 사용된 오픈 소스의 보안취약점 목록을 CVE ID별로 확인하고 해결 여부를 관리할 수 있음



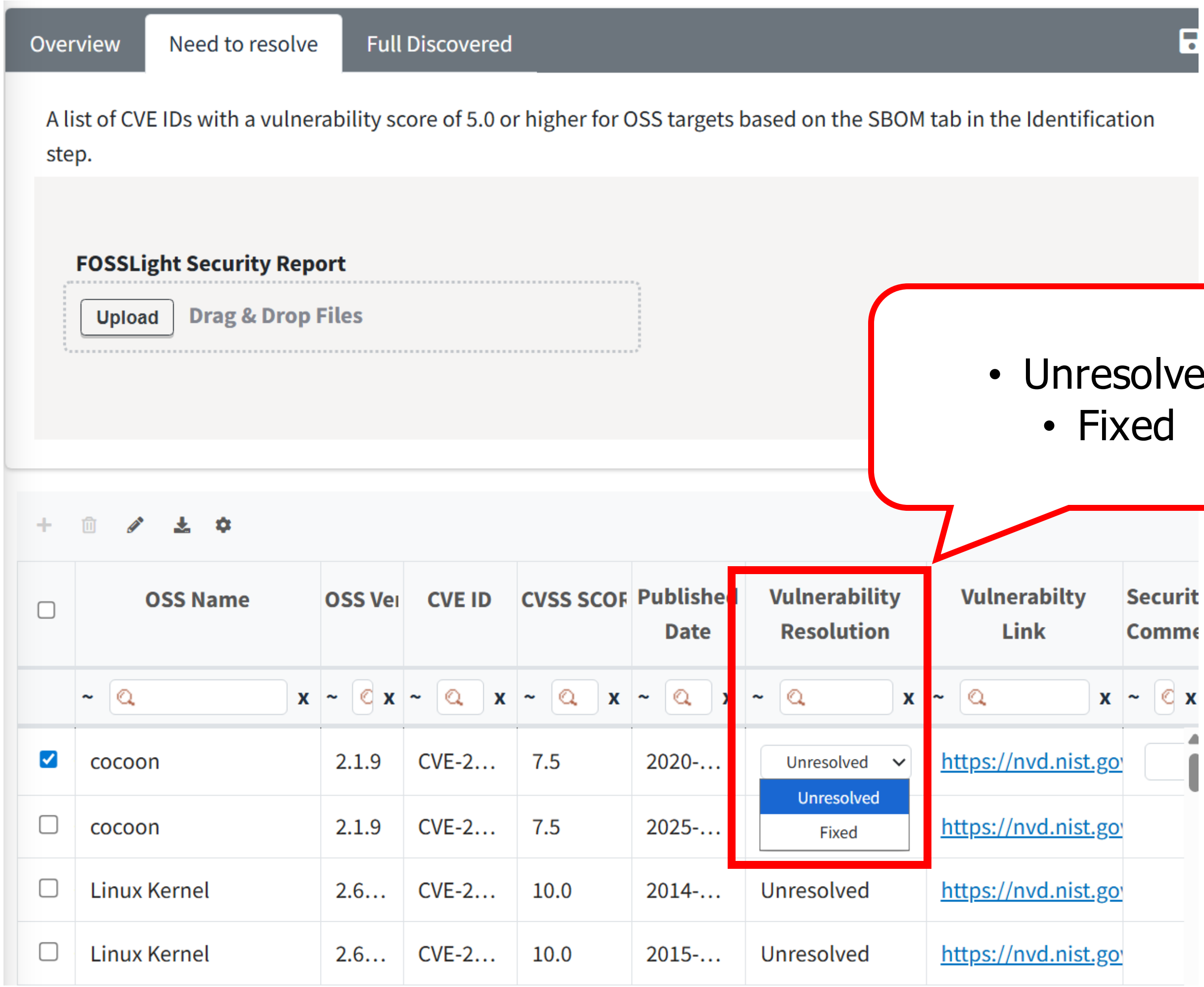
A list of CVE IDs with a vulnerability score of 5.0 or higher for OSS targets based on the SBOM tab in the Identification step.

FOSSLight Security Report

□	OSS Name	OSS Versio	CVE ID	CVSS SCORE	Published Date	Vulnerability Resolution	Vulnerabilty Link	Security Comments
□	cocoon	2.1.9	CVE-2025-2…	7.5	2025-01-27	Unresolved	https://nvd.nist.gov/vuln/de	
□	cocoon	2.1.9	CVE-2020-1…	7.5	2020-09-11	Unresolved	https://nvd.nist.gov/vuln/de	
□	Linux Kernel	2.6.27	CVE-2010-2…	10.0	2010-09-07	Unresolved	https://nvd.nist.gov/vuln/de	
□	Linux Kernel	2.6.27	CVE-2010-2…	10.0	2010-09-08	Unresolved	https://nvd.nist.gov/vuln/de	
□	Linux Kernel	2.6.27	CVE-2009-0…	10.0	2009-01-07	Unresolved	https://nvd.nist.gov/vuln/de	
□	Linux Kernel	2.6.27	CVE-2009-4…	10.0	2010-01-12	Unresolved	https://nvd.nist.gov/vuln/de	
□	Linux Kernel	2.6.27	CVE-2015-1…	10.0	2015-03-16	Unresolved	https://nvd.nist.gov/vuln/de	
□	Linux Kernel	2.6.27	CVE-2008-5…	10.0	2008-11-18	Unresolved	https://nvd.nist.gov/vuln/de	

Security 탭 – Vulnerability Resolution

- **Vulnerability Resolution**
  - 수정 여부에 따라 Resolution 값 저장 가능



A list of CVE IDs with a vulnerability score of 5.0 or higher for OSS targets based on the SBOM tab in the Identification step.

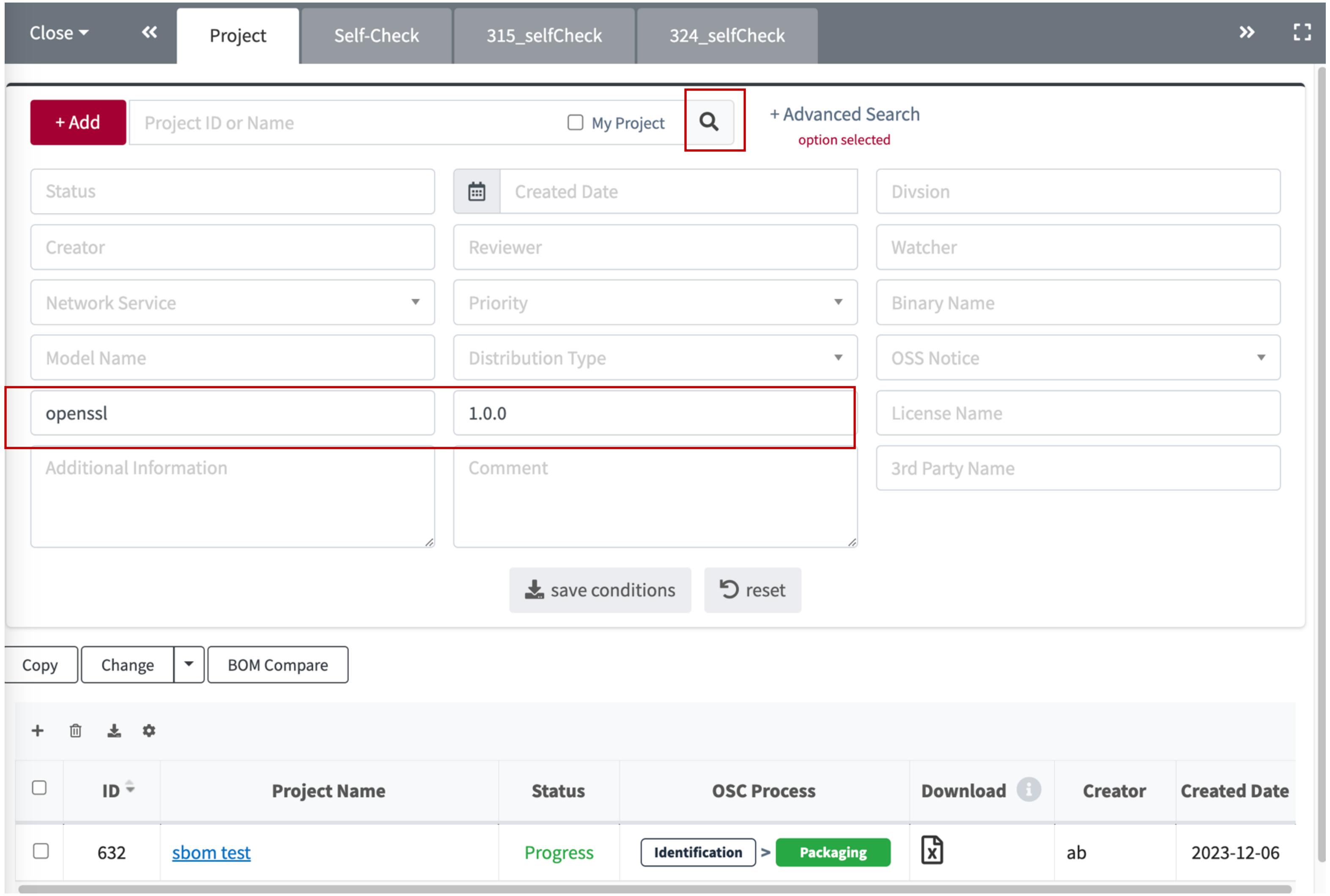
FOSSLight Security Report

□	OSS Name	OSS Vei	CVE ID	CVSS SCOF	Publishe Date	Vulnerability Resolution	Vulnerabilty Link	Securit Comme
☑	cocoon	2.1.9	CVE-2…	7.5	2020-…	Unresolved Unresolved Fixed	https://nvd.nist.go	
□	cocoon	2.1.9	CVE-2…	7.5	2025-…		https://nvd.nist.go	
□	Linux Kernel	2.6…	CVE-2…	10.0	2014-…	Unresolved	https://nvd.nist.go	
□	Linux Kernel	2.6…	CVE-2…	10.0	2015-…	Unresolved	https://nvd.nist.go	

- Unresolved
- Fixed

SBOM 관리

- 특정 오픈소스 버전을 사용하는 프로젝트 조회 가능

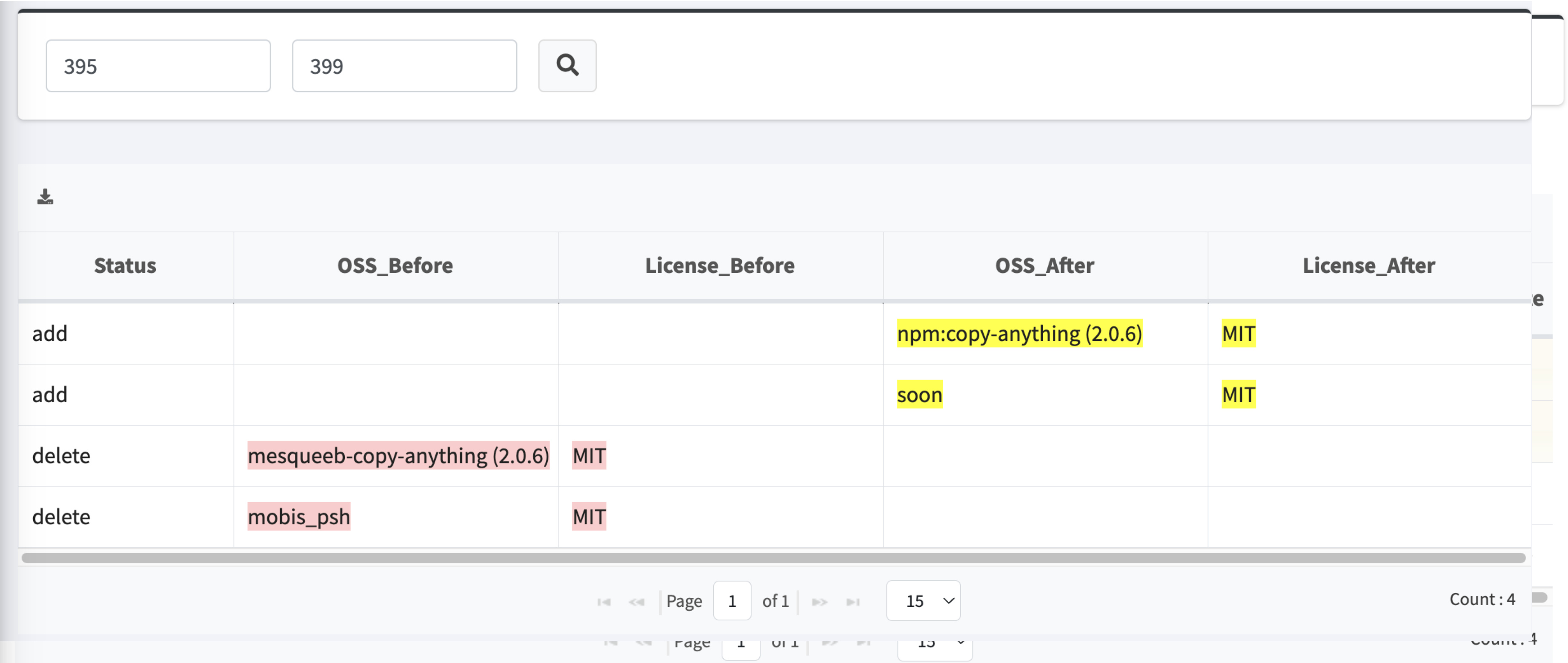


openssl

1.0.0

□	ID	Project Name	Status	OSC Process	Download	Creator	Created Date
□	632	sbom test	Progress	Identification > Packaging		ab	2023-12-06

SBOM 변경 추적



395

399

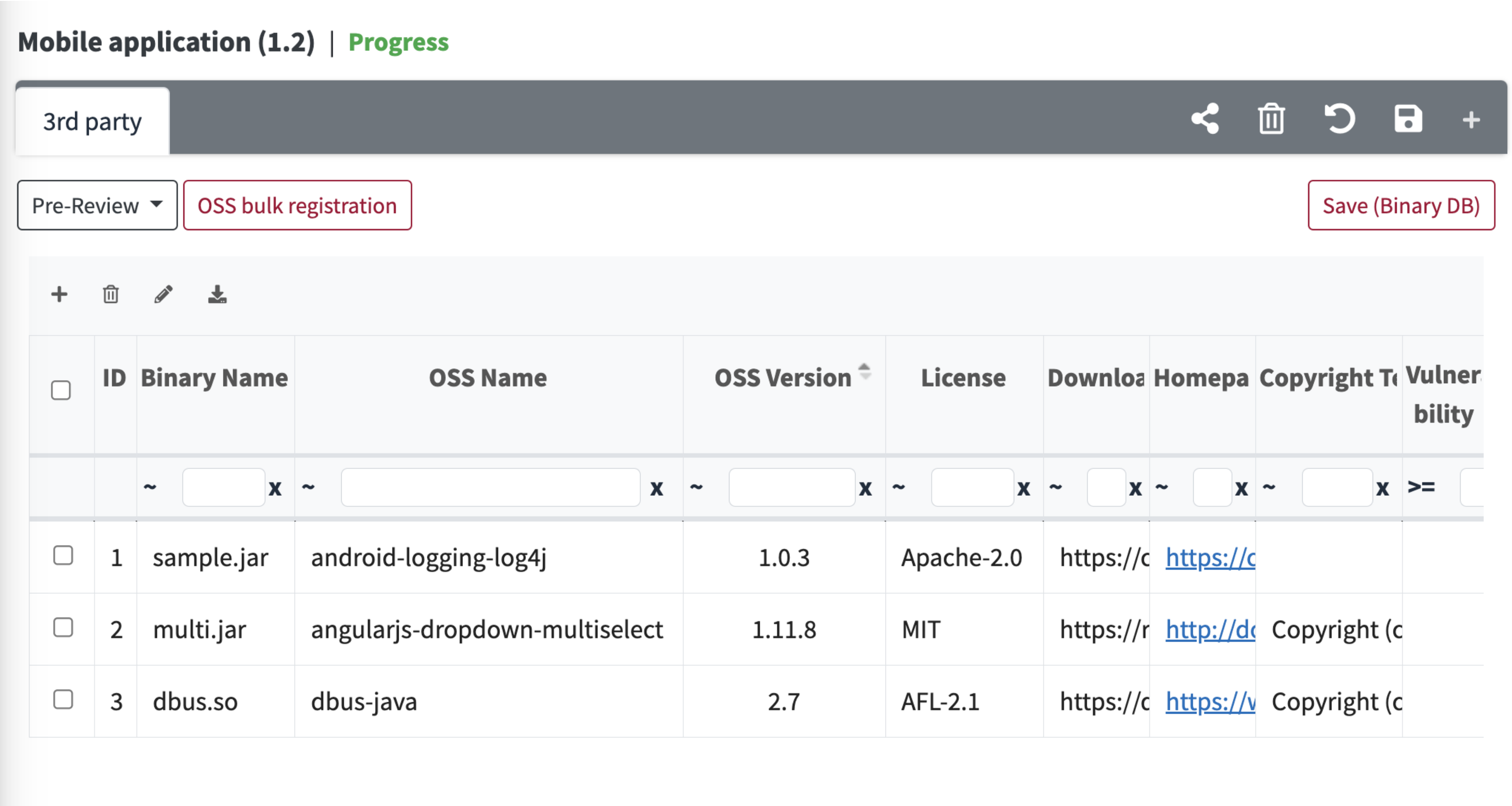
Status	OSS_Before	License_Before	OSS_After	License_After
add			npm:copy-anything (2.0.6)	MIT
add			soon	MIT
delete	mesqueeb-copy-anything (2.0.6)	MIT		
delete	mobis_psh	MIT		

Page 1 of 1 15

Count : 4

공급망 관리

- 타사에서 전달받은 Software 별 SBOM 관리 가능



Mobile application (1.2) | **Progress**

□	ID	Binary Name	OSS Name	OSS Version	License	Downloa	Homepa	Copyright Te	Vulner bility
		~ x	~ x	~ x	~ x	~ x	~ x	~ x	>=
□	1	sample.jar	android-logging-log4j	1.0.3	Apache-2.0	https://c	https://c		
□	2	multi.jar	angularjs-dropdown-multiselect	1.11.8	MIT	https://r	http://dc	Copyright (c	
□	3	dbus.so	dbus-java	2.7	AFL-2.1	https://c	https://v	Copyright (c	

FOSSLight Hub

오픈소스 및 라이선스 관리

- 오픈소스 정보 통합 관리
- 라이선스 의무사항 및 제약사항 확인
- 오픈소스 일괄 등록

컴플라이언스 프로세스 관리

- 올인원 오픈소스 컴플라이언스 수행
- 고지문 자동 생성 및 공개 소스코드 검증
- 이슈 트래킹

보안취약점 관리

- 보안취약점 조회
- 프로젝트별 보안취약점 모니터링 (자동 메일 알림)

사전점검

- 오픈소스 자동 분석
- 라이선스 자동 검출
- 라이선스 의무사항 및 보안취약점 알림

SBOM 관리

- 오픈소스 및 상용 소프트웨어 목록 관리
- 소프트웨어별 사용 프로젝트 검색
- SPDX, CycloneDX 문서 지원 (ISO 표준)

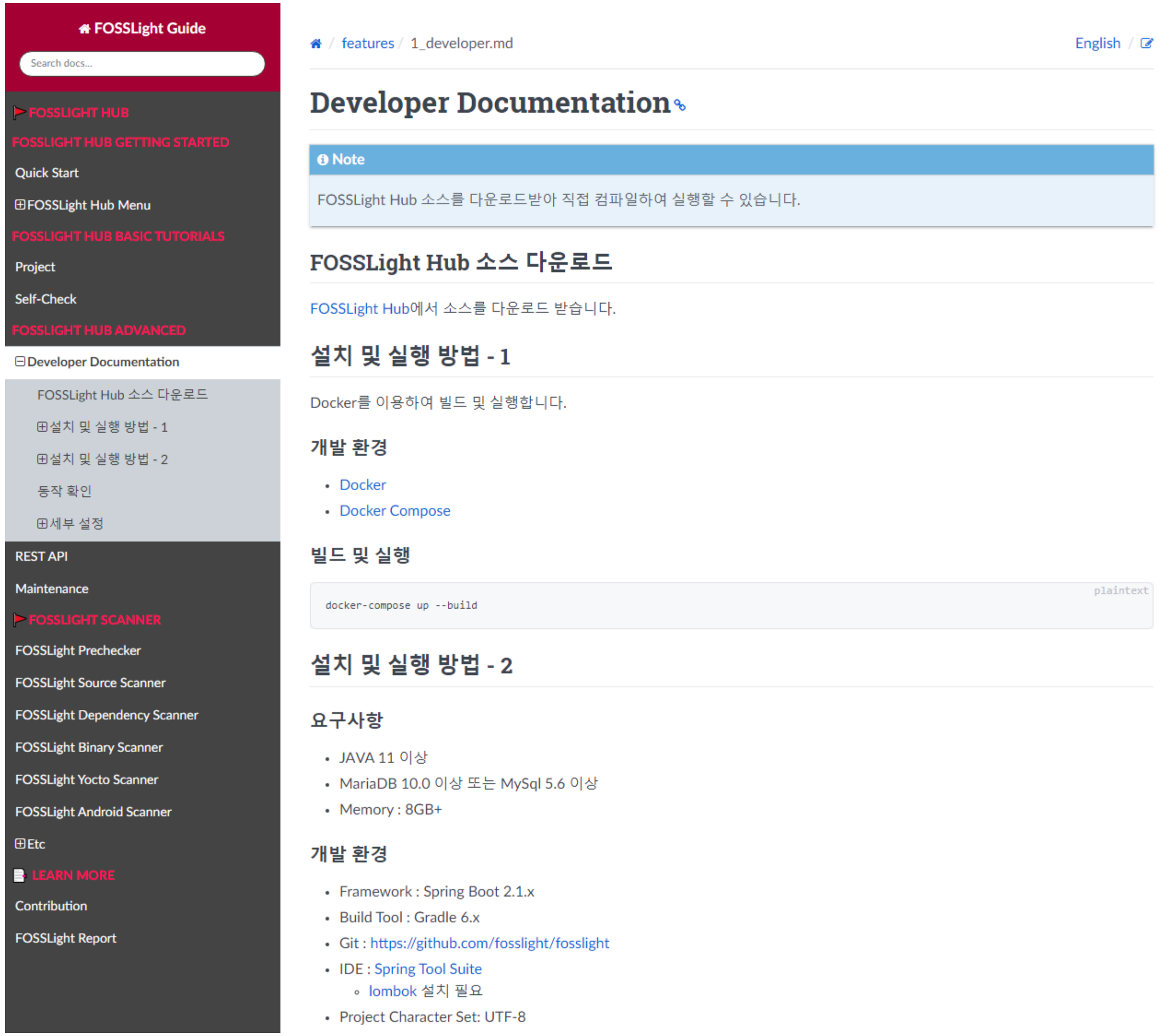
SW 공급망 관리

- 공급받은 타사 소프트웨어 관리
- 오픈 소스 확약서 관리
- 프로젝트 자동 연계

FOSSLight 설치 및 관리

개발 환경 설정

- https://fosslight.org/hub-guide/advanced/1_developer.html



Developer Documentation

Note

FOSSLight Hub 소스를 다운로드받아 직접 컴파일하여 실행할 수 있습니다.

FOSSLight Hub 소스 다운로드

FOSSLight Hub에서 소스를 다운로드 받습니다.

설치 및 실행 방법 - 1

Docker를 이용하여 빌드 및 실행합니다.

개발 환경

- Docker
- Docker Compose

빌드 및 실행

```plaintext
docker-compose up --build
```

설치 및 실행 방법 - 2

요구사항

- JAVA 11 이상
- MariaDB 10.0 이상 또는 MySql 5.6 이상
- Memory : 8GB+

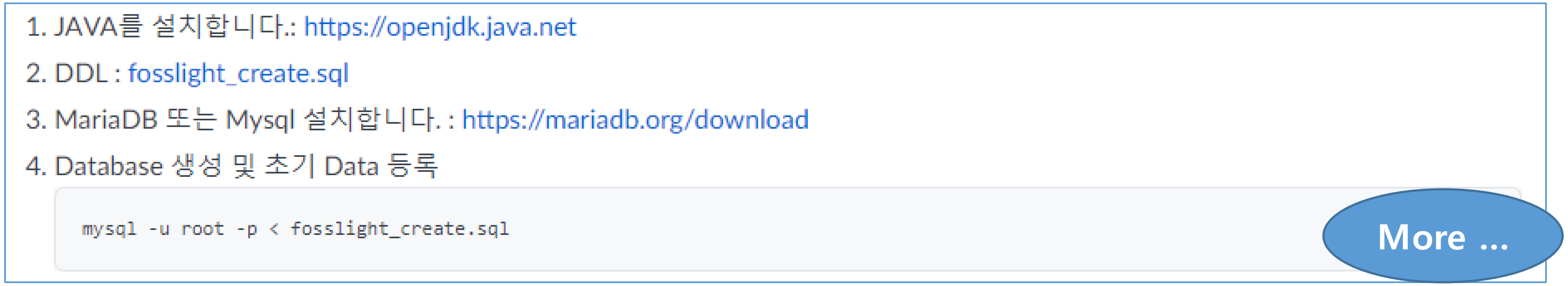
개발 환경

- Framework : Spring Boot 2.1.x
- Build Tool : Gradle 6.x
- Git : https://github.com/fosslight/fosslight
- IDE : Spring Tool Suite
  - lombok 설치 필요
- Project Character Set: UTF-8

LG Electronics Open Source Program Office

개발 환경 설정

- **소스 코드 빌드 & 실행**
  - Java, MariaDB 설치 필요

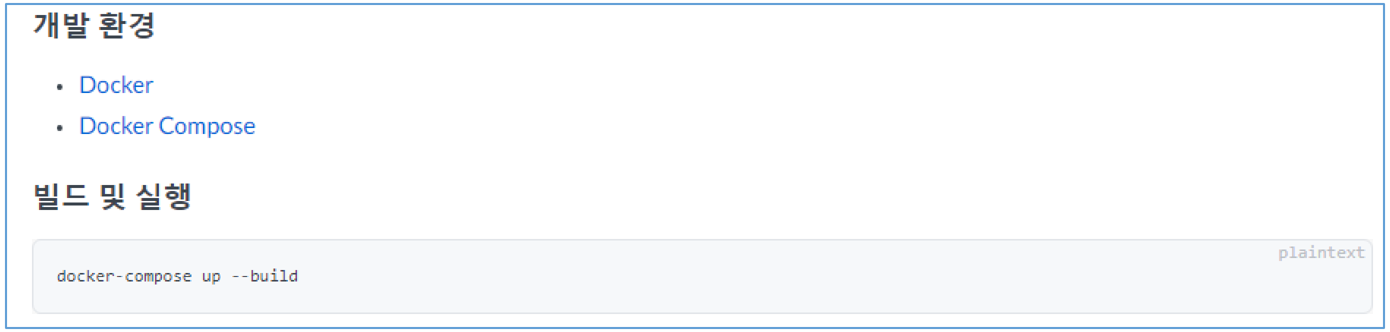


1. JAVA를 설치합니다.: https://openjdk.java.net
2. DDL : fosslight_create.sql
3. MariaDB 또는 Mysql 설치합니다. : https://mariadb.org/download
4. Database 생성 및 초기 Data 등록

```
mysql -u root -p < fosslight_create.sql
```

More ...

- **Docker로 빌드 & 실행**
  - 자동으로 DB, Java 세팅하여 쉽게 실행 가능



개발 환경

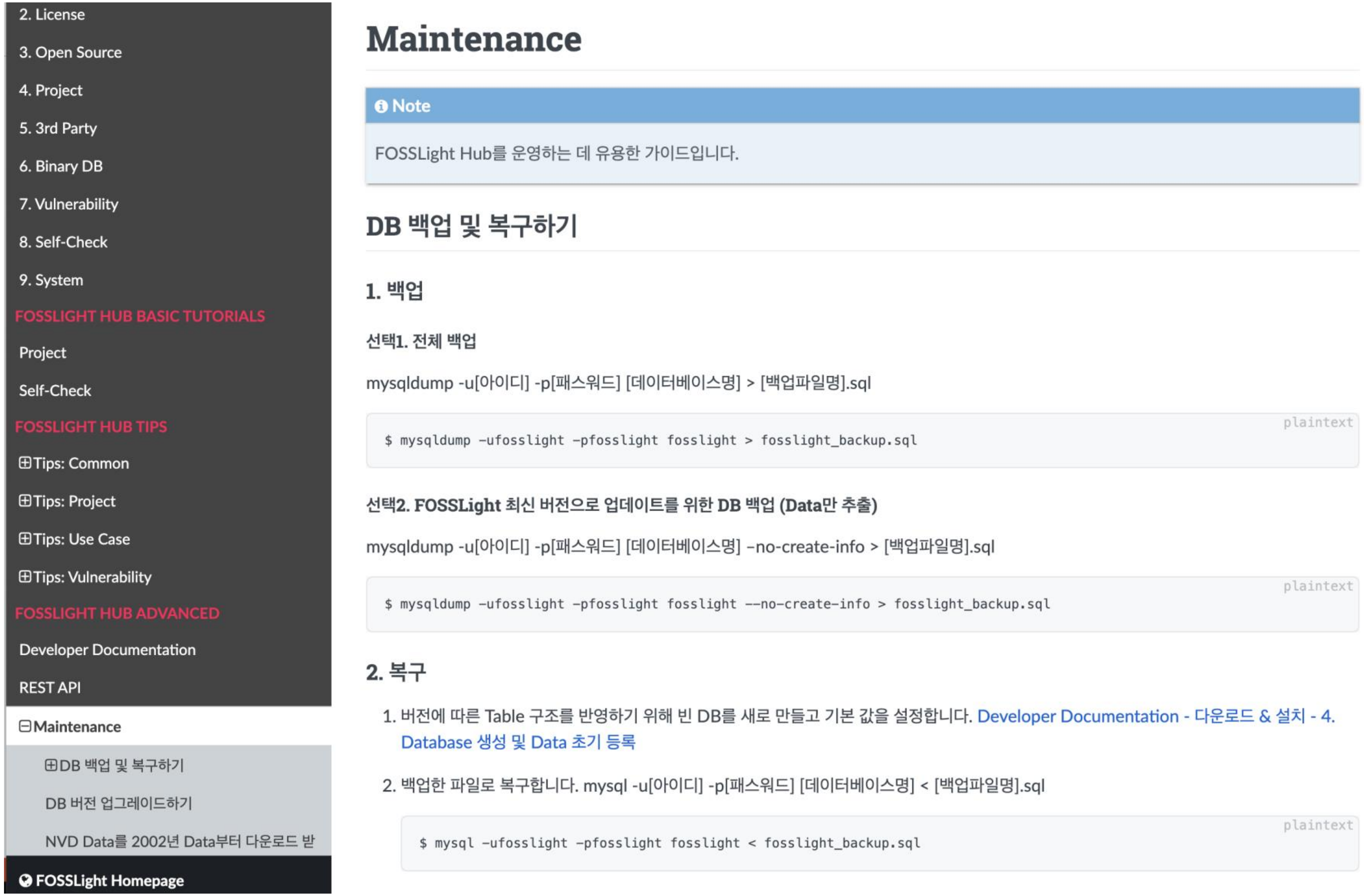
- Docker
- Docker Compose

빌드 및 실행

```
docker-compose up --build
```

NVD Data 초기
다운로드 필요

DB 백업 및 복구



Maintenance

Note

FOSSLight Hub를 운영하는 데 유용한 가이드입니다.

DB 백업 및 복구하기

1. 백업

선택1. 전체 백업

mysqldump -u[아이디] -p[패스워드] [데이터베이스명] > [백업파일명].sql

```plaintext
$ mysqldump -ufosslight -pfosslight fosslight > fosslight_backup.sql
```

선택2. FOSSLight 최신 버전으로 업데이트를 위한 DB 백업 (Data만 추출)

mysqldump -u[아이디] -p[패스워드] [데이터베이스명] –no-create-info > [백업파일명].sql

```plaintext
$ mysqldump -ufosslight -pfosslight fosslight --no-create-info > fosslight_backup.sql
```

2. 복구

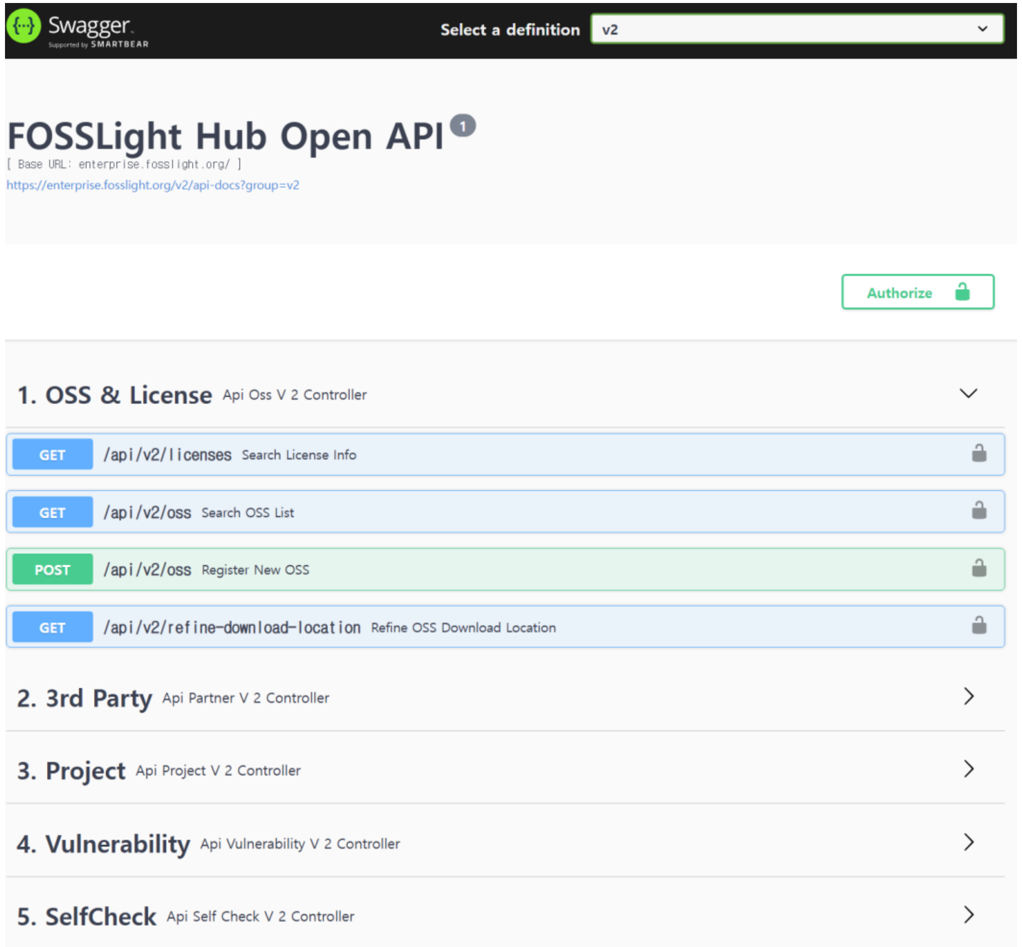
1. 버전에 따른 Table 구조를 반영하기 위해 빈 DB를 새로 만들고 기본 값을 설정합니다. Developer Documentation - 다운로드 & 설치 - 4. Database 생성 및 Data 초기 등록
2. 백업한 파일로 복구합니다. mysql -u[아이디] -p[패스워드] [데이터베이스명] < [백업파일명].sql

```plaintext
$ mysql -ufosslight -pfosslight fosslight < fosslight_backup.sql
```

Migration Script 제공

REST API

- 다른 툴과 연동할 수 있도록 REST API를 제공
  - ➢ TOKEN은 User Management에서 발행 가능



FOSSLight Hub Open API 1

[Base URL: enterprise.fosslight.org/]

https://enterprise.fosslight.org/v2/api-docs?group=v2

1. OSS & License Api Oss V 2 Controller

GET /api/v2/licenses Search License Info

GET /api/v2/oss Search OSS List

POST /api/v2/oss Register New OSS

GET /api/v2/refine-download-location Refine OSS Download Location

2. 3rd Party Api Partner V 2 Controller

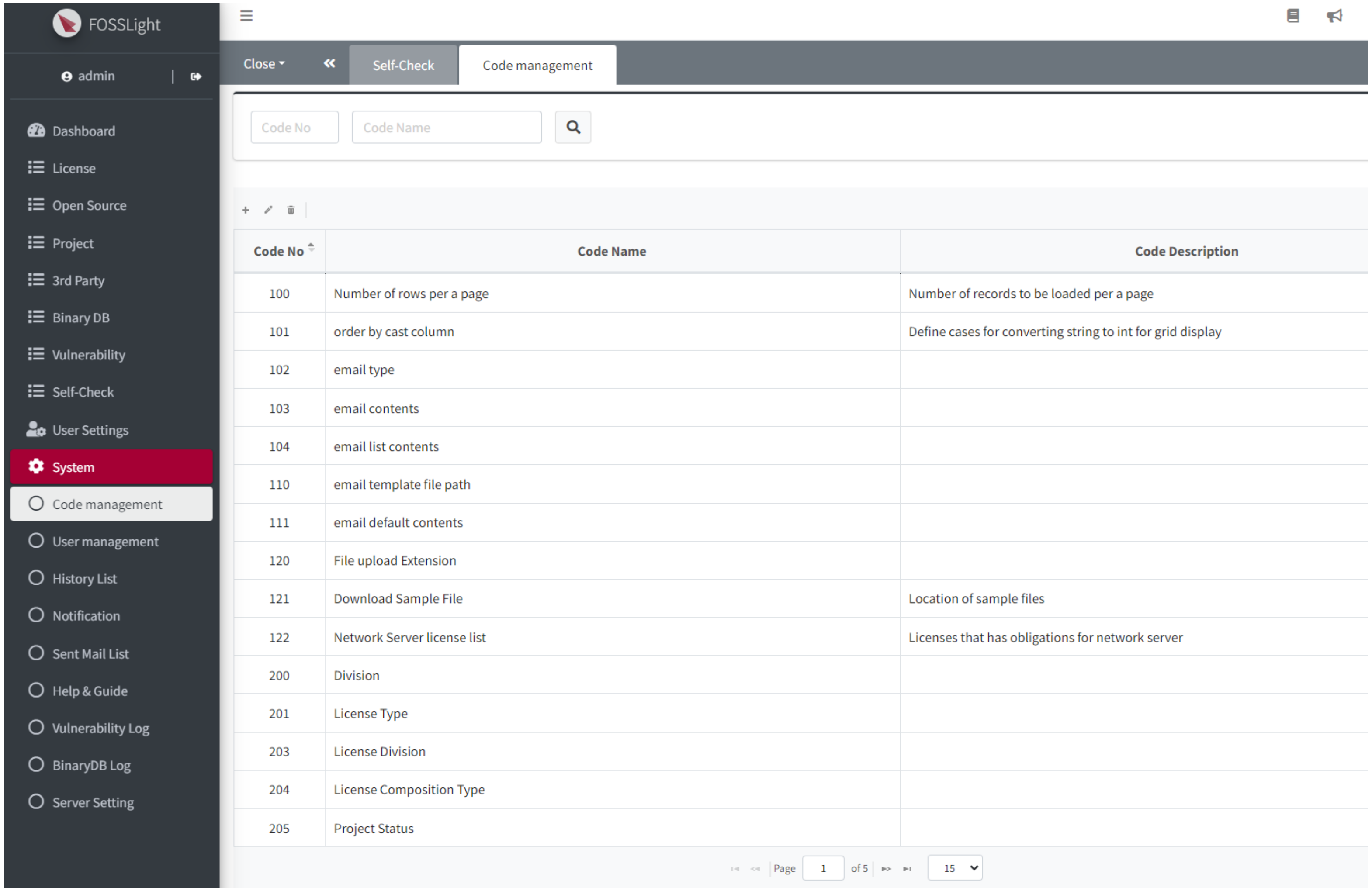
3. Project Api Project V 2 Controller

4. Vulnerability Api Vulnerability V 2 Controller

5. SelfCheck Api Self Check V 2 Controller

System 메뉴

- **Admin 권한으로 확인 가능한 시스템 관리 메뉴**



Code No	Code Name	Code Description
100	Number of rows per a page	Number of records to be loaded per a page
101	order by cast column	Define cases for converting string to int for grid display
102	email type	
103	email contents	
104	email list contents	
110	email template file path	
111	email default contents	
120	File upload Extension	
121	Download Sample File	Location of sample files
122	Network Server license list	Licenses that has obligations for network server
200	Division	
201	License Type	
203	License Division	
204	License Composition Type	
205	Project Status	

THANK YOU !