LGE Internal Use Only

LG Electronics Open Source Program Office

FOSSLight Hub 리뷰 자동화

LG전자 Open Source TP 민경선

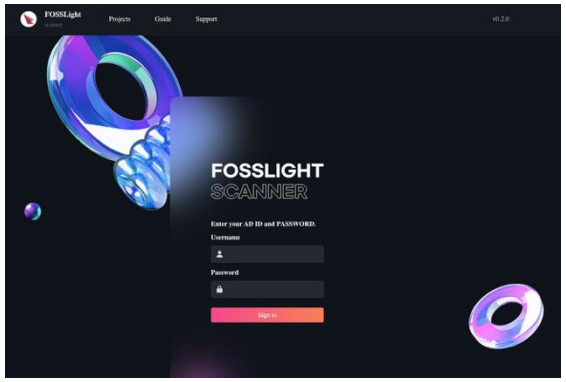
LG Open Source

CONTENTS

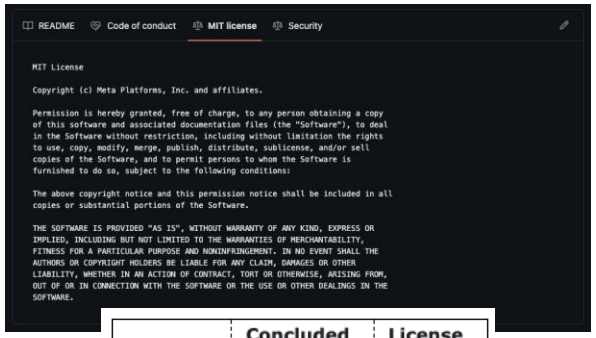
- CoReviewer
- CoReviewer - 자동 Confirm
- Packaging - Path 자동 검출
- Upcoming FOSSLight Hub

CoReviewer 이전의 리뷰 방식

오픈소스 다운로드 → 오픈소스 분석 실행 → 분석 내용 판단하기
• 이전 버전과 비교
• 라이선스 문구 확인 → 등록하기

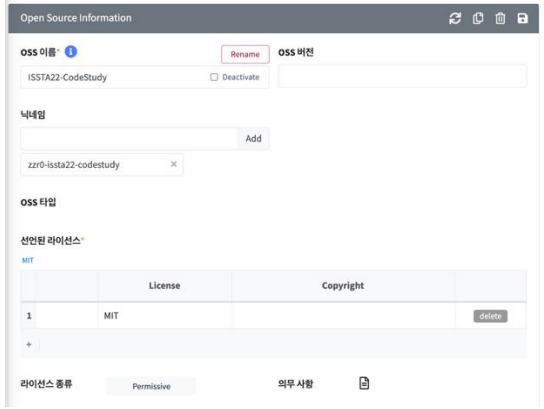


FOSSology



Scanner Count	Concluded License Count	License Name
2	0	Apache-2.0
1	0	See-URL
1	0	Python

Showing 1 to 3 of 3 licenses



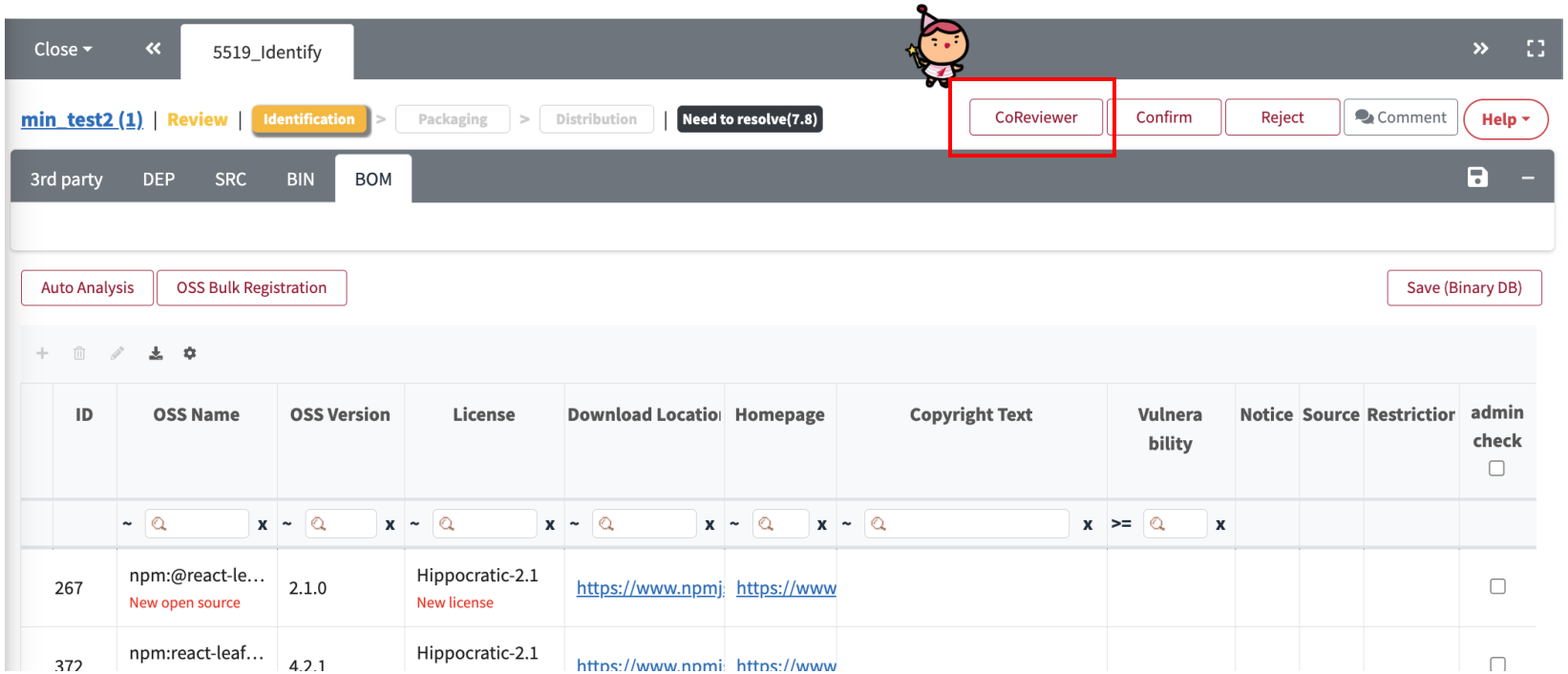
CoReviewer 도입

- 오픈소스 리뷰의 자동화 도입

CoReviewer 실행 방법

CoReviewer
버튼클릭

오픈소스 분석
자동 등록
결과 리포트



[CoReviewer] FAIL

1. grpc (2.72.0)
   reason : [Existed] grpc ()
2. microsoft-TemplateStudio (fd7db0a)
   reason : [New] [generic-cla, proprietary-license, unknown]
3. microsoft-wdkmetadata (0.12.8-experimental)
   reason : [Not Included in License Text] MS-PL
4. win32metadata (61.0.15-preview)
   reason : [Not Included in License Text] MS-PL
5. windowsappsdk (1.7.250606001)
   reason : [Existed] windowsappsdk ()

[CoReviewer] SUCCESS (NEED TO CHECK)

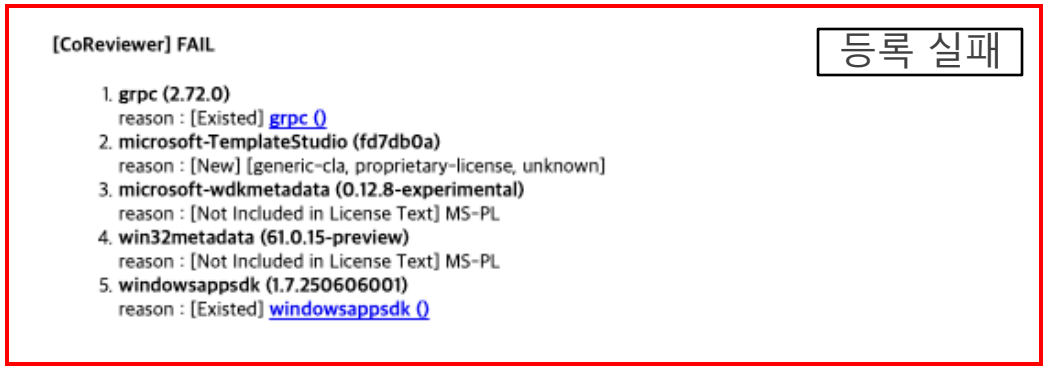
http://collab.lge.com/main/x/DZYppg

1. GuidMapping (1.3.0)
   infoMsg : [Saved] NO_LICENSE_DETECTED
2. dotnet-runtime (9.0.7)
   infoMsg : [Dectected] Unknown-License-Reference
   [Same Need Review] dotnet-runtime (9.0.2)
3. dotnet-runtime (9.0.5)
   infoMsg : [Dectected] Unknown-License-Reference
   [Same Need Review] dotnet-runtime (9.0.7)
4. log4net (3.1.0)
   infoMsg : [Dectected] Unknown-License-Reference
   [Saved diff Version] Checkout : rel/3.1.0 / Saved : 3.1.0

[CoReviewer] SUCCESS

1. CsWin32 (0.3.183)
2. ExtensionBlocks (1.4.2)
3. Lnk (1.5.1)
4. WinUIEx (2.6.0)
5. grpc-dotnet (2.71.0)
6. WinUI-Gallery (2.6.0)
7. serilog (4.3.0)

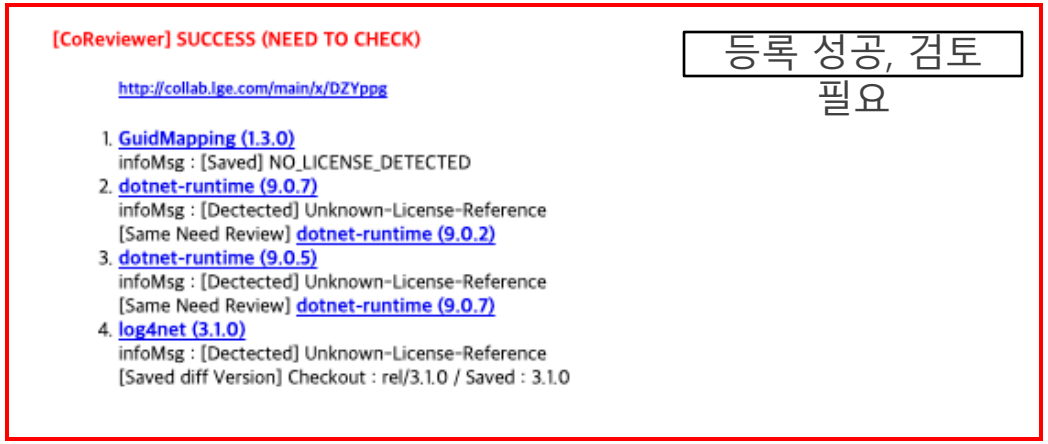
CoReviewer 결과 리포트



[CoReviewer] FAIL

1. **grpc (2.72.0)**
   reason : [Existed] grpc ()
2. **microsoft-TemplateStudio (fd7db0a)**
   reason : [New] [generic-cla, proprietary-license, unknown]
3. **microsoft-wdkmetadata (0.12.8-experimental)**
   reason : [Not Included in License Text] MS-PL
4. **win32metadata (61.0.15-preview)**
   reason : [Not Included in License Text] MS-PL
5. **windowsappsdk (1.7.250606001)**
   reason : [Existed] windowsappsdk ()

등록 실패



[CoReviewer] SUCCESS (NEED TO CHECK)

http://collab.lge.com/main/x/DZYppg

1. GuidMapping (1.3.0)
   infoMsg : [Saved] NO_LICENSE_DETECTED
2. dotnet-runtime (9.0.7)
   infoMsg : [Dectected] Unknown-License-Reference
   [Same Need Review] dotnet-runtime (9.0.2)
3. dotnet-runtime (9.0.5)
   infoMsg : [Dectected] Unknown-License-Reference
   [Same Need Review] dotnet-runtime (9.0.7)
4. log4net (3.1.0)
   infoMsg : [Dectected] Unknown-License-Reference
   [Saved diff Version] Checkout : rel/3.1.0 / Saved : 3.1.0

등록 성공, 검토 필요

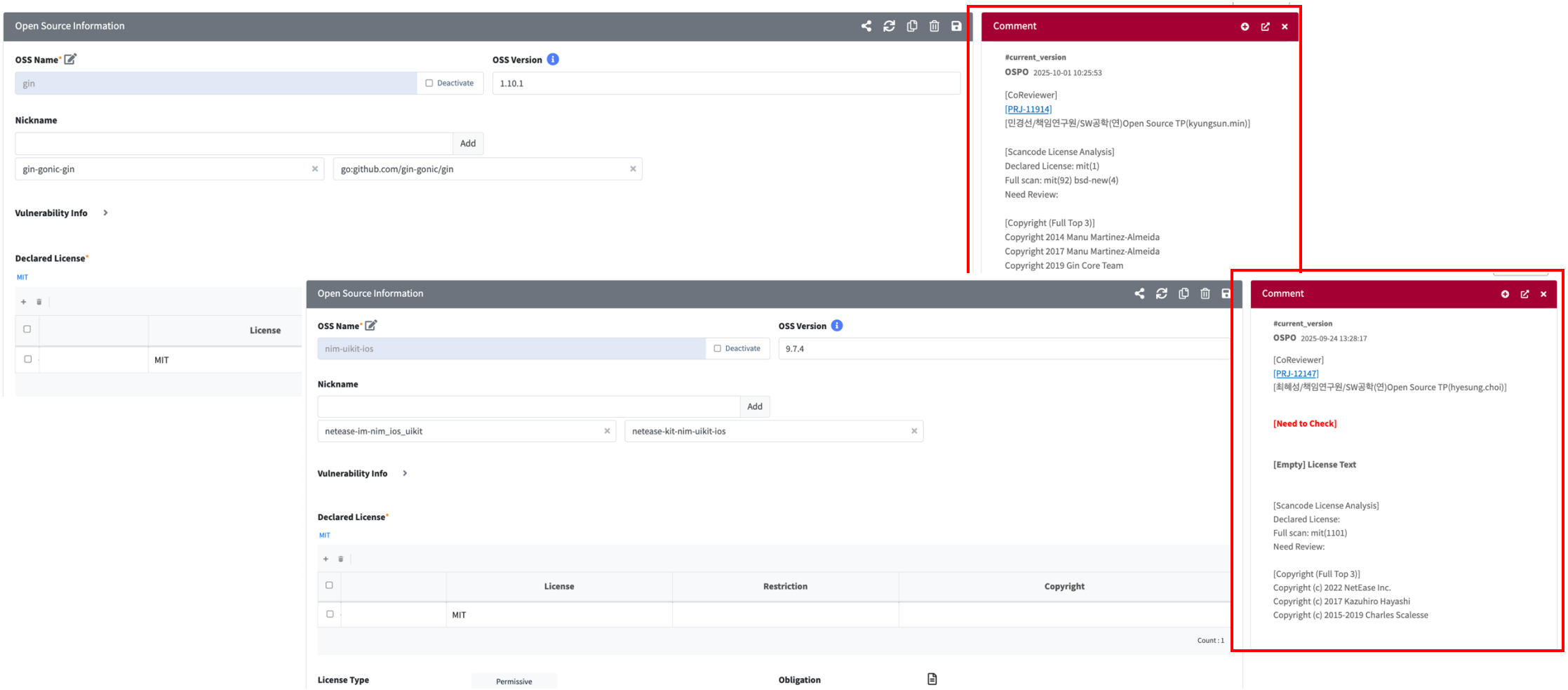
[CoReviewer] SUCCESS

1. CsWin32 (0.3.183)
2. ExtensionBlocks (1.4.2)
3. Lnk (1.5.1)
4. WinUIEx (2.6.0)
5. grpc-dotnet (2.71.0)
6. WinUI-Gallery (2.6.0)
7. serilog (4.3.0)

등록 성공

CoReviewer를 통해 등록된 OSS

- 분석 결과를 확인 할 수 있도록 comment 제공



등록 실패 케이스 저장 방법

- 분석된 결과를 저장할 수 있는 UI 제공

Title	Result	OSS Name	OSS Version	OSS NickName	Declared License Name	Copyright	Download Location	Homepage	Description	Comment
취합정보		binaryornot	0.4.3 New version	pypi:binaryornot	bsd-new New license	Copyright (c) 2013, Audrey Roy	https://pypi.org/project/binaryornot, https://pypi.org/project/binaryornot/0	https://github.com/binaryornot/bi…		[Scancode License Analysis] Declared L
ㄴ binaryornot (0.4.4) 최신 등록 정보		binaryornot	0.4.3 New version	pypi:binaryornot	BSD-3-Clause		https://pypi.org/project/binaryornot, https://pypi.org/project/binaryornot/0	https://pypi.org/project/binaryorn…		[Scancode License Analysis] Declared L
ㄴ 사용자 작성 정보		pypi:binaryornot New open source	0.4.3	pypi:binaryornot Duplicate.	0BSD		https://pypi.org/project/binaryornot OSS with the similar link already exists.	https://github.com/binaryornot/bi…		[Scancode License Analysis] Declared L
ㄴ License text파일 분석 결과		binaryornot	0.4.3 New version	pypi:binaryornot	bsd-new New license		https://pypi.org/project/binaryornot, https://pypi.org/project/binaryornot/0	https://github.com/binaryornot/bi…		[Scancode License Analysis] Declared L
ㄴ Scancode 분석 결과		binaryornot	0.4.3 New version	pypi:binaryornot	bsd-new New license	Copyright (c) 2013, Audrey Roy	https://pypi.org/project/binaryornot, https://pypi.org/project/binaryornot/0	https://github.com/binaryornot/bi…		[Scancode License Analysis] Declared L

Page 1 of 1 15 Count : 1

Title: 취합정보

OSS Name: binaryornot

OSS Version: 0.4.3

New version

Nickname: Add

pypi:binaryornot

Vulnerability Info

Declared License: bsd-new

		License	Copyright	
1.		bsd-new		delete

Detected License: Add

Restriction

Copyright: Copyright (c) 2013, Audrey Roy

License Type

Obligation

Download Location: Add

https://pypi.org/project/binaryornot

pkg:pypi/binaryornot

https://pypi.org/project/binaryornot/0.4.3

pkg:pypi/binaryornot

Home Page: https://github.com/binaryornot/binaryornot

Summary Description

Important Notes

Comment:
[Scancode License Analysis]
Declared License: bsd-new(1)
Full scan: bsd-new(5.0)

Save

Title: License text파일 분석 결과

OSS Name: binaryornot

OSS Version: 0.4.3

New version

Nickname: Add

pypi:binaryornot

Vulnerability Info

Declared License: bsd-new

		License	Copyright	
1.		bsd-new		delete

Detected License: Add

Restriction

Copyright

License Type

Obligation

Download Location: Add

https://pypi.org/project/binaryornot

pkg:pypi/binaryornot

https://pypi.org/project/binaryornot/0.4.3

pkg:pypi/binaryornot

Home Page: https://github.com/binaryornot/binaryornot

Summary Description

Important Notes

Comment:
[Scancode License Analysis]
Declared License: bsd-new(1)
Full scan: bsd-new(5.0)

Save

Title: binaryornot (0.4.4) 최신 등록 정보

OSS Name: binaryornot

OSS Version: 0.4.3

New version

Nickname: Add

pypi:binaryornot

Vulnerability Info

Declared License: BSD-3-Clause

		License	Copyright	
1.		BSD-3-Clause		delete

Detected License: Add

Restriction

Copyright

License Type

Obligation

Download Location: Add

https://pypi.org/project/binaryornot

pkg:pypi/binaryornot

https://pypi.org/project/binaryornot/0.4.3

pkg:pypi/binaryornot

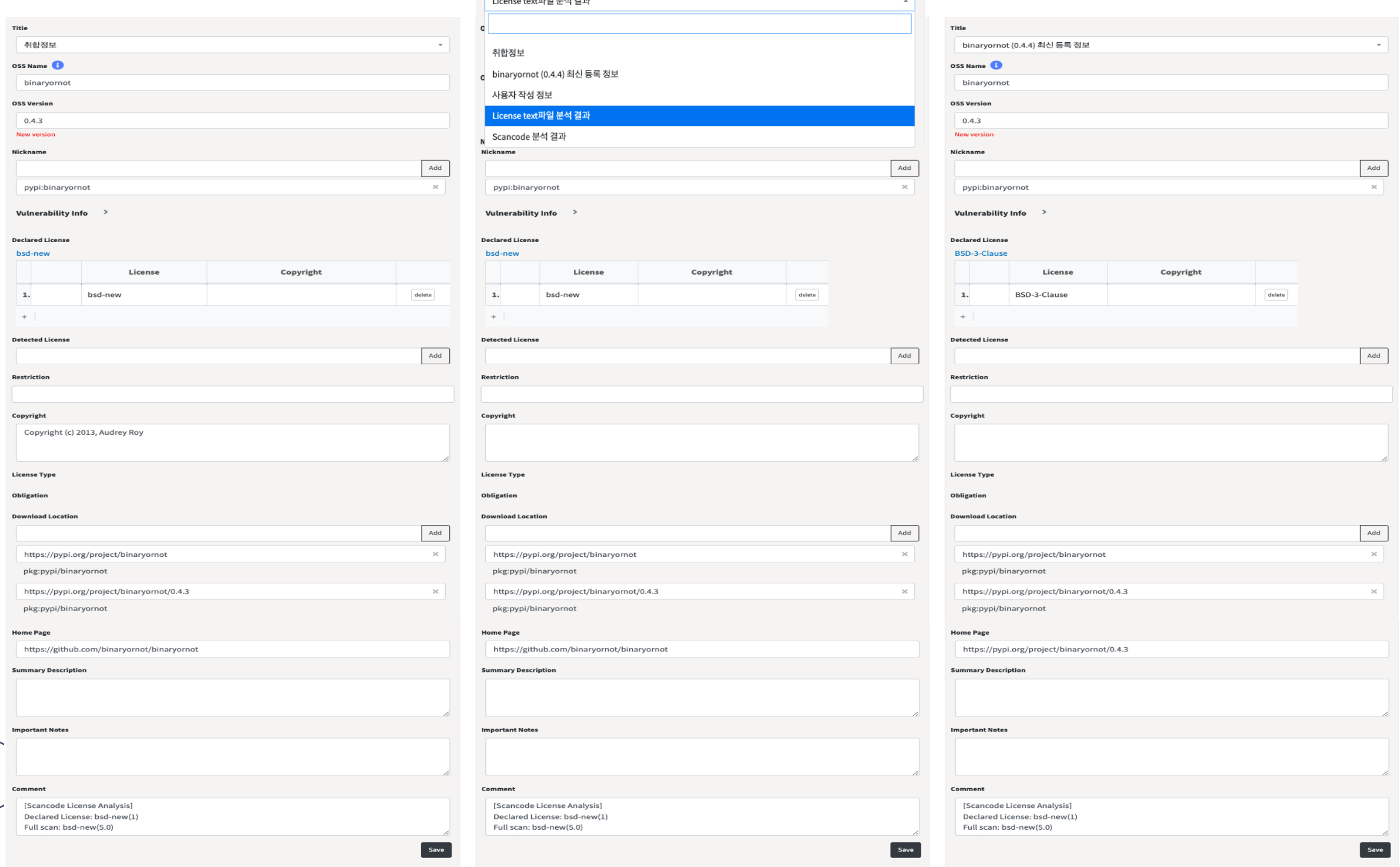
Home Page: https://pypi.org/project/binaryornot/0.4.3

Summary Description

Important Notes

Comment:
[Scancode License Analysis]
Declared License: bsd-new(1)
Full scan: bsd-new(5.0)

Save


Title
취합정보
OSS Name
binaryornot
OSS Version
0.4.3
New version
Nickname
Add
pypi:binaryornot
Vulnerability Info
Declared License
bsd-new
License
Copyright
1.
bsd-new
delete
Detected License
Add
Restriction
Copyright
Copyright (c) 2013, Audrey Roy
License Type
Obligation
Download Location
Add
https://pypi.org/project/binaryornot
pkg:pypi/binaryornot
https://pypi.org/project/binaryornot/0.4.3
pkg:pypi/binaryornot
Home Page
https://github.com/binaryornot/binaryornot
Summary Description
Important Notes
Comment
[Scancode License Analysis]
Declared License: bsd-new(1)
Full scan: bsd-new(5.0)
Save
취합정보
binaryornot (0.4.4) 최신 등록 정보
사용자 작성 정보
License text파일 분석 결과
Scancode 분석 결과
binaryornot (0.4.4) 최신 등록 정보
BSD-3-Clause
https://pypi.org/project/binaryornot/0.4.3

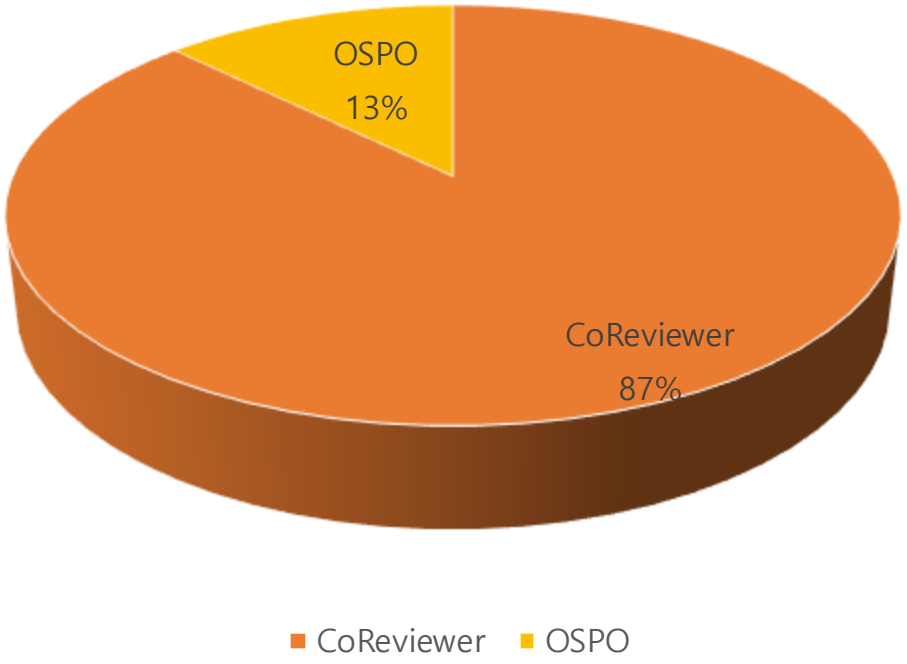
등록 실패 케이스 저장 방법

- 오픈 소스별 FOSSLight Source Scanner 분석 결과 파일 제공

#	파일명	크기	수정일시	다운로드
1	125608840_EasternJournalist-utils3d_0.0.2.xlsx	7.5 KB	2025-10-01 10:55	
2	125608843_PyYAML_6.0.3.xlsx	7.6 KB	2025-10-01 10:55	
3	125608849_anyio_4.11.0.xlsx	7.6 KB	2025-10-01 10:55	
4	125608851_boto3_1.38.18.xlsx	12.1 KB	2025-10-01 10:55	
5	125608852_botocore_1.38.46.xlsx	24.9 KB	2025-10-01 10:57	
6	125608855_click_8.3.0.xlsx	7.8 KB	2025-10-01 10:55	
7	125608867_fonttools_4.60.0.xlsx	19.3 KB	2025-10-01 10:56	
8	125608869_hf-xet_1.1.10.xlsx	11.2 KB	2025-10-01 10:55	
9	125608870_huggingface_hub_0.35.1.xlsx	14.2 KB	2025-10-01 10:55	
10	125608872_iopath_0.1.10.xlsx	8.3 KB	2025-10-01 10:55	
11	125608880_mysql-connector-python_9.2.0.xlsx	51.8 KB	2025-10-01 10:55	
12	125608882_ninja_1.13.0.xlsx	17.8 KB	2025-10-01 10:56	
13	125608890_portalocker_3.2.0.xlsx	8.2 KB	2025-10-01 10:56	

CoReviewer 효과

- **2025년 오픈 소스 등록 기준**

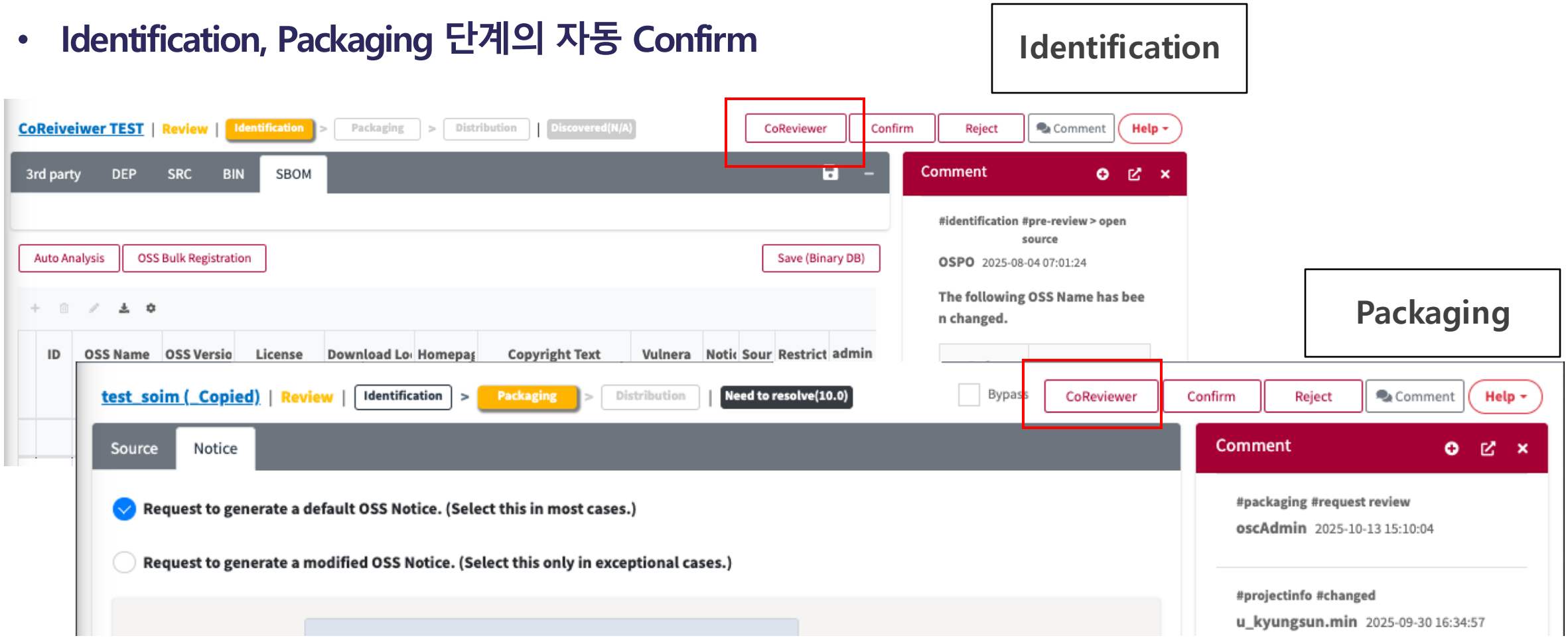


OSPO는 반복작업을 단순화
리뷰시간 단축 OSPO의 확인이
필요한 부분에 좀 더 집중 가능

Requestor는 리뷰 시간이
단축되어 프로세스 진행
소요시간이 감소됨

CoReviewer - 자동 Confirm

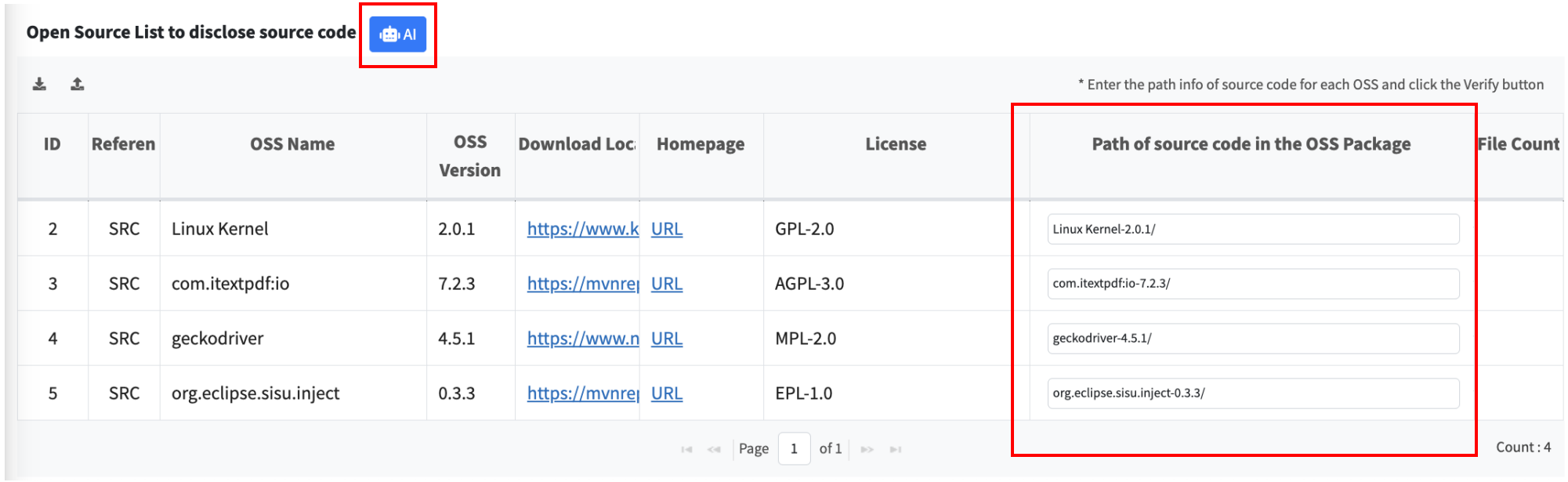
- Identification, Packaging 단계의 자동 Confirm



LG Electronics Open Source Program Office

Packaging – Path 자동 검출

- OSS Name, OSS version 조합으로 업로드한 Packaging 파일 내 Path에서 가장 유사한 path를 찾고,
  유사한 Path를 찾은 경우만 "Path of source code in the OSS Package"를 업데이트



Upcoming FOSSLight Hub

- **License 리뷰 자동화**
  - 의무사항 및 제약사항 예측
  - SPDX 등록 여부 확인

- **사용자용 CoReviewer**
  - Identification 의 SBOM을 기반으로 요약 정보 제공
  - Identification 의 수정이 필요한 사항, 진행 방법 등 사용자에게 필요한 정보 제공

Q&A