Software Package Data Exchange® (SPDX®)

- A standard format for communicating the components, licenses and copyrights associated with a software package.

- Key pillar in Linux Foundation's Open Compliance Program which comprises:

  - Tools, Self-Assessment, SPDX, Rapid Alert System, Training, Community

The SPDX Document

Document Information

SPDX Version and Licensing

Creation Information

How and when created

Package Information

Package identification, copyright and licensing

File Information

File by file identification, copyright and licensing

Licensing Information

Text of licenses that are not in SPDX License List

Review Information

Log of 3rd party reviews

File is in RDF/XML or tag value form and can be converted to/from spreadsheets.

SPDX License List

License Identifier	Recognized Exceptions	Full name of License
AFL-3.0		Academic Free License 3.0
AGPL-3.0		(GNU) Affero General Public License v3
APL		Adaptive Public License
ASL-2.0		Apache License, 2.0
APSL-2.0		Apple Public Source License 2.0
Artistic-2.0		Artistic license 2.0
AAL		Attribution Assurance License
BSD-4-Clause		BSD 4-clause "Original" or "Old" License
BSD-3-Clause		BSD 3-clause "New" or "Revised" License
BSD-2-Clause		BSD 2-clause "Simplified" or "FreeBSD" License
BSL-1.0		Boost Software License 1.0
CATOSL-1.1		Computer Associates Trusted Open Source License 1.1
CC-BY-1.0		Creative Commons Attribution 1.0
CC-BY-NC-1.0		Creative Commons Attribution Non Commercial 1.0
CC-BY-ND-1.0		Creative Commons Attribution No Derivatives 1.0
CC-BY-SA-1.0		Creative Commons Attribution Share Alike 1.0
CC-BY-NC-ND-1.0		Creative Commons Attribution Non Commercial No Derivatives 1.0
CC-BY-NC-SA-1.0		Creative Commons Attribution Non Commercial Share Alike 1.0
CC-BY-2.0		Creative Commons Attribution 2.0
CC-BY-NC-2.0		Creative Commons Attribution Non Commercial 2.0
CC-BY-ND-2.0		Creative Commons Attribution No Derivatives 2.0
CC-BY-SA-2.0		Creative Commons Attribution Share Alike 2.0
CC-BY-NC-ND-2.0		Creative Commons Attribution Non Commercial No Derivatives 2.0
CC-BY-NC-SA-2.0		Creative Commons Attribution Non Commercial Share Alike 2.0

- **300 Licenses (including common exceptions)**
  - Standardized license names
  - Exact text of licenses
  - Available on SPDX® website – URLs won't change
- **License Matching Guidelines**
  - For matching licenses against those included on the SPDX License List
- **License Templates**
  - Denote license text which is optional or replaceable per the license matching guidelines

- ## License List
  - ### Internal: TI, Wind River, MicroFocus, HP, Siemens
  - ### Tools: Black Duck, FOSSology, nexB, Protecode
  - ### Community: OSI, Debian, Composer, Bower, NPM
- ## Format
  - ### Internal/Partners: TI, Wind River, Alcatel Lucent, Siemens
  - ### Tooling: Wind River, Black Duck, Source Auditor, FOSSology/ UNO, Yocto, TripleCheck, SPDX OSS
- ## Tagging Files
  - ### U-Boot, Wind River

SPDX Fit with Open Chain

- **Supports Best Practices / Certification**
  - Avoids re-inventing format, license list and tooling
- **Supplier Self Check**
  - Enables while allowing OC to remain neutral on tooling
- **Invites pre-built community**

RULES → OC-defined language

Engine → *Yay/Nay*

TOOLS → SPDX

SPDX
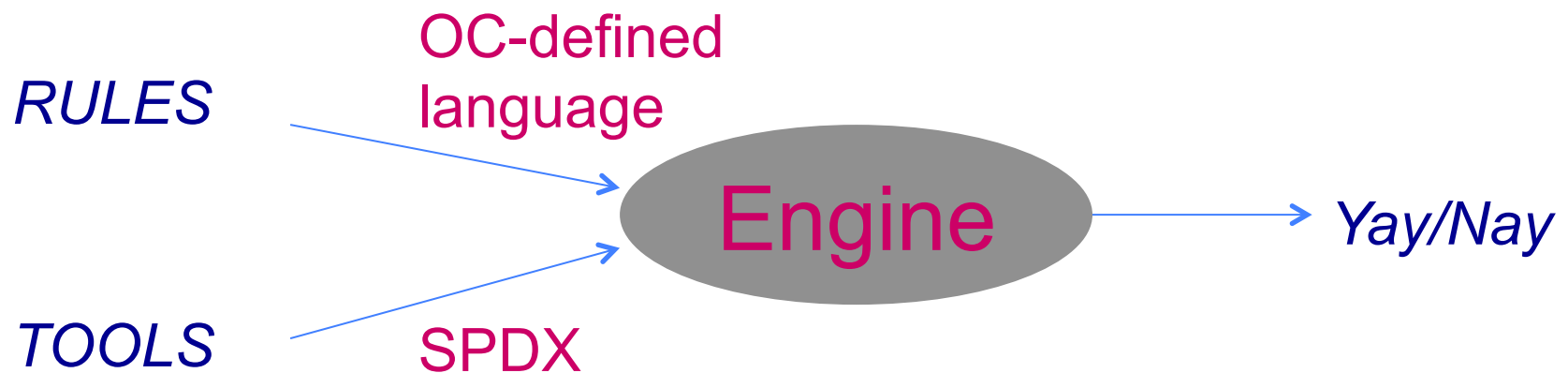
Participants

Open Source Organizations
End-Users
Integration & Services
Device OEMs
Applications
OS Distributions
Systems
Semiconductor Vendors

BLACKDUCK · TEXAS INSTRUMENTS · Linaro · ARM

PELAGICORE

nexB · UNIVERSITY of NEBRASKA OMAHA · SOURCE Auditor "Keeping Your Source Code Yours" · WIND RIVER

QUALCOMM · MICRO FOCUS · protecode · hp

CISCO · CANONICAL

freescale semiconductor · Alcatel·Lucent · PALAMIDA Application Security for Open Source Software

OpenLogic · open source initiative · eclipse · Antelink · BT

APACHE · Software Freedom Law Center · mozilla FOUNDATION

THE LINUX FOUNDATION

FOSS BAZAAR · coverity · …and others

Participation is from a range of organizations and across various roles

- ## See:
  - http://www.spdx.org
  - Mailing lists, meetings, wiki

- ## Contact:
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