Debunking the Myths and Misunderstandings

Jilayne Lovejoy
Who am I?

Why am I here?
Myth: SPDX tells you what licenses are present

Truth: SPDX is a standard format (People (using tools) determine what licenses are present)
Myth: If a license isn’t on the SPDX License List, you can’t identify it

Truth: The SPDX Specification provides a way to identify ALL licenses
5 Other Licensing Information Detected

This section is used for any detected, declared or concluded licenses that are NOT on the SPDX License List. For the most up-to-date version of the list see: http://spdx.org/licenses/. The SPDX License List can also be found here in Appendix I.

One instance should be created for every unique license or licensing information reference detected in package that does not match one of the licenses on the SPDX License List. Each license instance should have the following fields.

Fields:

5.1 Identifier Assigned

5.1.1 Purpose: Provide a locally unique identifier to refer to licenses that are not found on the SPDX License List. This unique identifier can then be used in the packages and files sections of the SPDX file (sections 4 and 6, respectively).

5.1.2 Intent: Create a human readable short form license identifier for a license not on the SPDX License List. This identifier should be unique within the SPDX file. In previous versions of SPDX, the references were required to be sequential numbers, but with version 1.2, creators may specify references that are easier for humans to remember and mentally map.

5.1.3 Cardinality: Conditional (mandatory, one) if license is not on SPDX License List.

5.1.4 Data Format: "LicenseRef-"[idString]

where

[idString] is a unique string containing letters, numbers, ".", "-" or "+".

5.1.5 Tag: "LicenseID:"
Myth: SPDX solves the entire compliance problem

Truth: SPDX may help facilitate compliance
Myth: SPDX is machine-readable only

Truth: SPDX is designed to be machine AND human readable
## Package Information

PackageName: grep-2.15.tar.gz
PackageFileName: grep-2.15.tar.gz
PackageDownloadLocation: NOASSERTION
PackageVerificationCode: 336457fef0e6ebd16f1627d2049fd545f6b42679
PackageChecksum: SHA1: 75bd25741442c9c19c3ed5d74176c302e76f4f06
PackageLicenseConcluded: GPL-3.0+
PackageLicenseDeclared: GPL-3.0+
PackageLicenseInfoFromFiles: GPL-3.0+
PackageLicenseInfoFromFiles: GPL-3.0
PackageLicenseInfoFromFiles: GFDL-1.3
PackageLicenseInfoFromFiles: GPL-1.0+
PackageCopyrightText: NOASSERTION

## File Information

## File

FileName: /grep-2.15/src/dosbuf.c
FileType: SOURCE
FileChecksum: SHA1: 7ea53928e96aea8091b23c6db16d2780585105e9
LicenseConcluded: GPL-3.0+
LicenseInfoInFile: GPL-3.0+
SPDX is just for commercial toolmakers (scanners) to make money

Um, no
There are no open source tools for SPDX

Wrong
SPDX Workgroup tools

• Java, command-line suite of tools under Apache-2.0
• Functionality includes:
  o Produce SPDX Tag or RDF file from (template) spreadsheet
  o Translators to translate from Tag to RDF (and vice versa), Tag or RDF to spreadsheet, Rag or RDF to HTML
  o Viewers for displaying SPDX documents in text and HTML formats
  o Comparison of SPDX documents (RDF, Tag, spreadsheet format)
  o Verification of SPDX documents

http://spdx.org/spdx-tools/tools-from-the-spdx-workgroup
Tools from the SPDX Workgroup

Here you will find tools for validating, transforming, reading and writing SPDX format files. These tools are published by the SPDX Working Group. Under the tools menu you will also find tools offered by the Community and Commercial Vendors.

**SPDX Workgroup Tools**

**OSIT**

OSIT allows developers to scan, self-verify their source code and report during development.

**AIRS**

AIRS helps supply chain partners share data regarding identification of open source components in software packages.

**Consolidated SPDX Tools and Library**

Latest versions of the SPDX workgroup tools consolidates all tool functionality into a single download. 1 attachment

**SPDX Compare Utility**

Compares two SPDX RDF documents

**License RDFa Generator**

Create a set of HTML files
Other Community or Free (as in beer) Tools

- **OSIT / AIRS** – contributed by Samsung (Apache-2.0)
- **FOSSology + SPDX** – University of Nebraska, Omaha (UNO), module to create an SPDX file in Tag format from FOSSology scan (Apache-2.0)
- **Yocto + SPDX** – integrate SPDX generation into Yocto build process
- **TripleCheck Reporter** – tool to create SPDX file (EUPL-1.1)
- **Wind River** – free web-based tool that creates SPDX file
We provide a free service that enables you to create SPDX files for your software packages. The server utilizes various algorithms and heuristics to determine licensing information for each file based solely on the information contained in the software package. Upload a package of your choice below and receive a computer generated SPDX file by email. Please send feedback to: spdx.windriver.com.

For uploading a package, acceptable package extensions are "tar.bz2", "tar.gz" and "zip".

Option #1: Upload a package

Upload a package:  [Choose file]  No file chosen
Email address:  opensource@layne.com

Screenshot  Name/Value  SPDX X-ray Viewer

Thank you for uploading the package.

Option #2: Choose a package

- GNU grep-2.15
- Apache httpd-2.4.6.tar.gz
- Apache-tomcat-7.0.47
- samba-4.1.0.tar.gz
- ubuntu-2013.10.tar.bz2

Email address:  opensource@layne.com

Screenshot  Name/Value  SPDX X-ray Viewer

Thank you for uploading the package.
This class integrates real-time license scanning, generation of SPDX standard output and verifying license info during the building process.

It is a combination of efforts from the OE-Core, SPDX and Fossology projects.

For more information on FOSSology:

http://www.fossology.org

For more information on FOSSologySPDX commandline:


For more information on SPDX:

http://www.spdx.org

SPDX file will be output to the path which is defined as [SPDX_MANIFEST_DIR] in ./meta/conf/licenses.conf.

SPDXOUTPUTDIR = '${WORKDIR}/spdx_output_dir'
SPDXSSTATEDIR = '${WORKDIR}/spdx_sstate_dir'

```python
def do_spdx():
    import os, sys
    import json
    info = {}
    info['workdir'] = (d.getVar('WORKDIR', True) or '')
```
This option permits editing/creating a single SPDX file from analysed packages/files by FOSSology.

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<tr>
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<td>2015-01-26 16:18:37</td>
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<tr>
<td>License List Version</td>
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<td>Output File Type</td>
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Package(s)

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<th>Name</th>
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<tbody>
<tr>
<td>arm-trusted-firmware-master.zip</td>
<td></td>
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Refresh

Back  Create
<rdf:RDF
    xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
    xmlns:doap="http://usefulinc.com/ns/doap#"
    xmlns:spdx="http://spdx.org/rdf/terms#"
    xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
    <spdx:SpdxDocument rdf:about="http://www.uri.com#SPDXANALYSIS">
        <spdx:referencesFile>
            <spdx:File rdf:nodeID="A0">
                <spdx:copyrightText>Copyright (c) 2014, ARM Limited and contributors. All rights reserved.</spdx:copyrightText>
                <spdx:licenseConcluded rdf:resource="http://spdx.org/rdf/terms#noassertion"/>
                <spdx:licenseComments></spdx:licenseComments>
                <spdx:checksum>
                    <spdx:Checksum>
                        <spdx:checksumValue>d12035693f1cde3556865a92de11a0fabb019155</spdx:checksumValue>
                        <spdx:algorithm rdf:resource="http://spdx.org/rdf/terms#checksumAlgorithm_sha1"/>
                    </spdx:Checksum>
                </spdx:checksum>
                <spdx:licenseInfoInFile rdf:resource="http://spdx.org/licenses/BSD-3-Clause"/>
                <spdx:fileType rdf:resource="http://spdx.org/rdf/terms#fileType_source"/>
                <spdx:fileName>./arm-trusted-firmware-master.zip/arm-trusted-firmware-master/include/drivers/io/io_memmap.h</spdx:fileName>
            </spdx:File>
        </spdx:referencesFile>
    </spdx:SpdxDocument>
</rdf:RDF>
SPDX Document Information

SPDX Version
SPDX-1.2

Data License

<p xmlns="http://www.w3.org/1999/xhtml" style="margin-left: 20px;">Creative Commons Zero v1.0 Universal</p>

Creator Information

• Creator:
Creator comment:
License List Version:

Reviewer Information

Package Information

Name: arm-trusted-firmware-master.zip
Version:
Download Location: NONE
Home Page: SHA1:
Summary:
File name: arm-trusted-firmware-master.zip
Supplier: NOASSERTION
Originator: NOASSERTION
Checksum: SHA1: ee4d3db6218585a9d49afedc8a473f42830c5f85

Package Verification Code

Value: 2cd99f0f0d79bf10520253a558d28229068ae344
File Name: /arm-trusted-firmware-master.zip/arm-trusted-firmware-master/bl1/aarch64/bl1_arch_setup.c

File Type: OTHER
Concluded License: NOASSERTION
  - BSD-3-Clause

License Comments:
Copyright Text: copyright (c) 2013-2014, arm limited and contributors. all rights reserved.
Contributors:

Dependencies:

File Name: /arm-trusted-firmware-master.zip/arm-trusted-firmware-master/bl1/aarch64/bl1_entrypoint.S

File Type: SOURCE
Concluded License: NOASSERTION
  - BSD-3-Clause

License Comments:
Copyright Text: copyright (c) 2013-2014, arm limited and contributors. all rights reserved.modified. * * cptr_el3.tcpac: this causes a direct access to the cpcrr_el1 from el1
Contributors:

Dependencies:
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<th>C</th>
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<td>de66d1bcb27abc197094f0ec490502f04f970f541a103f4f897f8</td>
<td>NOASSERTION</td>
<td>NONE</td>
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<td>NOASSERTION</td>
<td>NONE</td>
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<td>NONE</td>
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<tr>
<td>/arm-trusted-firmware-master/ignorer</td>
<td>OTHER</td>
<td>f6b05ed91b9a0e67e0e0c439de32787f06760d</td>
<td>NOASSERTION</td>
<td>BSD-3-Clause</td>
<td>copyright (c) 2013-2014, arm limited and contributors. All rights reserved.</td>
<td></td>
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</tr>
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<td>SOURCE</td>
<td>8952b53539ea17a483e92505a5e5d27f7e9ec4f56e</td>
<td>NOASSERTION</td>
<td>BSD-3-Clause</td>
<td>copyright (c) 2013-2014, arm limited and contributors. All rights reserved.</td>
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<td>BSD-3-Clause</td>
<td>copyright (c) 2013-2014, arm limited and contributors. All rights reserved.</td>
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<td>BSD-3-Clause</td>
<td>copyright (c) 2013-2014, arm limited and contributors. All rights reserved.</td>
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<td>Notice Text</td>
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<td>Artifact of Homepage</td>
<td>Artifact of URL</td>
<td>File Dependencies</td>
<td>Contributors</td>
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</table>

Copyright Linux Foundation 2014 (CC-BY-3.0)
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<th>Identifier</th>
<th>Extracted Text</th>
<th>License Name</th>
<th>Cross Reference URLs</th>
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<tbody>
<tr>
<td>LicenseRef-1</td>
<td>Please see online publication for the full text of this license</td>
<td>Non-commercial!</td>
<td></td>
</tr>
<tr>
<td>LicenseRef-2</td>
<td><strong>An unclassified license reference looks like a license (it contains common license terminology)</strong> but we don't recognize a specific license.</td>
<td>UnclassifiedLicense</td>
<td></td>
</tr>
<tr>
<td>LicenseRef-3</td>
<td>Copyright 2001-2009 Brandon Long ClearSilver is now licensed under the New BSD License.</td>
<td>ClearSilver</td>
<td><a href="http://www.clearsilver.net/">http://www.clearsilver.net/</a></td>
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</tbody>
</table>

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LicenseRef-4    | Please see online publication for the full text of this license                                         | BSD-possibility         |                      |
Myth: SPDX is just for corporations

Truth: Open communities can benefit from SPDX
projects / u-boot.git / blob

summary | shortlog | log | commit | commitdiff | tree
history | raw | HEAD

Merge branch 'master' of git://git.denx.de/u-boot-mpc85xx

[u-boot.git] / post / post.c

1 /*
2 * (C) Copyright 2002
3 * Wolfgang Denk, DENX Software Engineering, wd@denx.de.
4 *
5 * SPDX-License-Identifier: GPL-2.0+
6 */
7

Myth: SPDX is run by big corporations

Truth: SPDX is an open source project (run by people)
SPDX 1.x is useless
SPDX 2.0 is the miracle drug

Not quite…
Version 2.0

- Enables definitions of hierarchy and other relationships between SPDX elements
  - Files, packages, different SPDX Documents
  - Relationships such as:
    - CONTAINS, CONTAINED_BY, GENERATES, GENERATED_BY, PATCH
    - FOR, FILE_ADDED, FILE_MODIFIED, DYNAMIC_LINK, STATIC_LINK
- License expression syntax and modifiers
  - +, AND, OR, WITH
- Ability to track revision history, verify creator & reviewer data
I have no use for SPDX

Maybe. (but, then don’t knock it)
I don’t know how to follow SPDX

Join the general mailing list!!!
http://spdx.org/participate/general-spdx-meeting

Contribute to tools!!!
http://git.spdx.org/spdx-tools.git/
THANKS!

opensource@jilayne.com