

Doing it Right: Open Source Compliance Executive Guide

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Abstract

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Doing it Right: Open Source Compliance Quick Executive Guide - Ibrahim Haddad, Samsung

The past decade has witnessed an unprecedented adoption of open source software by enterprises for the various advantages it offers. This massive adoption of open source software came with legal and compliance responsibilities. Enterprises and development organizations have since then started establishing policies around open source usage (and contribution), and implementing engineering development processes to insure that software products that deploy are in compliance. This presentation provides a guide to doing compliance the right way (one of many) with an overview on setting up an open source compliance program and institutionalizing best practices.



Disclaimers

I am not a lawyer.
This presentation is not a legal advice.
I advise the Samsung compliance team.



Executive View on OSS Compliance

Why

When

How

Who

- Why
- When
- How
- Who

You are not alone

Why

When

How

Who

Clear is the new Smart

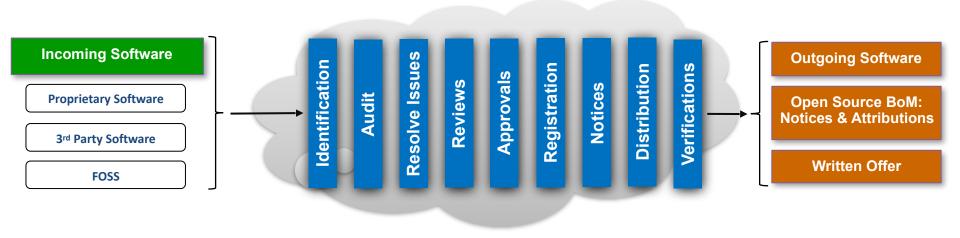
- Clear governance
- Clear policies
- Clear processes
- Clear guidelines

Just like wine, your practices get better with time!

- Clear governance
- Clear policies
- Clear processes
- Clear guidelines

Example of a Usage / Compliance Process

(Used to approve the inclusion of open source code in a commercial product)



For a detailed discussion about the compliance process, please refer to the Linux Foundation compliance publications available from http://compliance.linuxfoundation.org.

People Involved in the Compliance Process

- Developers / Software Architects
- Software Development Managers
- Open Source Compliance Staff
- Legal Counsel
- Compliance Officer (aka Director or Manager of Open Source)

I write code

I approve technical merit for oss usage

I scan code and report results
I review scan results and advise

I manage and execute compliance

Practical Legal Advice at Your Fingertips

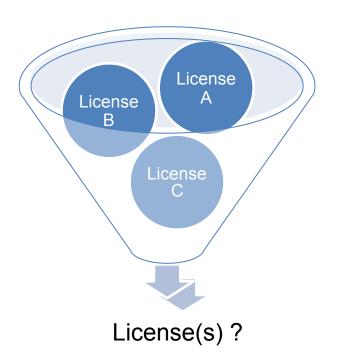
- License playbooks
- License compatibility information
- License classification information
- Approved software interaction methods
- Checklists

1. License Playbooks

- An easy to read and understand summary of licenses intended for software developers.
- For each commonly used license provide a playbook that includes:
 - Name / Version / URL
 - Executive Summary
 - Grant
 - Limitations
 - Warranty
 - Obligations
 - Patent Notes
 - Etc.

2. License Compatibility Matrix

- License compatibility issues arises when developers combine code from different sources into a single work.
- A license compatibility matrix is an easy visual method to identify if License-A is compatible with License-B.



Incoming Licenses = A + B + COutgoing License(s) = ?

License Compatibility Matrix: Elaborate Example

		I want to release a project under:						
		GPLv2 only	GPLv2 or later	GPLv3 or later	LGPLv2.1 only	LGPLv2.1 or later	LGPLv3 or later	
I want to copy code under:	GPLv2 only	ок	0K [<u>2]</u>	NO	OK: Convey project under GPLv2 only [7]	OK: Convey project under GPLv2 only [7][2]	NO	
	GPLv2 or later	OK [<u>1]</u>	ок	ОК	OK: Convey project under GPLv2 or later [7]	OK: Convey project under GPLv2 or later [7]	OK: Convey project under GPLv3 [<u>8]</u>	
	GPLv3	NO	OK: Convey project under GPLv3 [3]	ОК	OK: Convey project under GPLv3 [7]	OK: Convey project under GPLv3 [7]	OK: Convey project under GPLv3 [8]	
	LGPLv2.1 only	OK: Convey code under GPLv2 [7]	OK: Convey code under GPLv2 or later [7]	OK: Convey code under GPLv3 [7]	ок	OK [6]	OK: Convey code under GPLv3 [7][8]	
	LGPLv2.1 or later	OK: Convey code under GPLv2 [7][1]	OK: Convey code under GPLv2 or later [7]	OK: Convey code under GPLv3 [7]	0K <u>[5]</u>	ОК	ок	
	LGPLv3	NO	OK: Convey project and code under GPLv3 [8][3]	OK: Convey code under GPLv3 [8]	OK: Convey project and code under GPLv3 [7][8]	OK: Convey project under LGPLv3 [4]	ok	
I want to use a library under:	GPLv2 only	ок	0K [<u>2]</u>	NO	OK: Convey project under GPLv2 only [7]	OK: Convey project under GPLv2 only [7][2]	МО	
	GPLv2 or later	OK [1]	ок	ок	OK: Convey project Inder GPLv2 or later [7]	OK: Convey project under GPLv2 or later [7]	OK: Convey project under GPLv3 [8]	
	GPLv3	NO	OK: Convey project under GPLv3 [3]	ок	OK: Convey project under GPLv3 [7]	OK: Convey project under GPLv3 [7]	OK: Convey project under GPLv3 [8]	
	LGPLv2.1 only	ок	ок	ок	ок	ок	ок	
	LGPLv2.1 or later	OK	OK	OK	OK	ок	OK	
	LGPLv3	NO	OK: Convey project under GPLv3 [9]	OK	ок	ок	ок	

3. License Classification

• An easy way to understand the approval process for different licenses and the course of action needed when using these licenses.

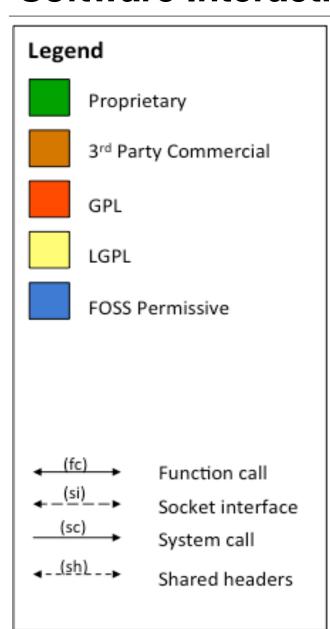
<u>Permissive</u>	Modifications to be released	Patent Clause	Not Allowed
License-A License-B License-C License-D	License-E License-F License-G	License-H License-I License-K	License-L License-M
Notes: Source code licensed under these licenses is pre-approved and can be combined with proprietary software.	Notes: Modifications made to source code licensed under these license must be released back	Notes: Due to patent clause, you must discuss with legal counsel about your planned usage.	Notes: Company policy prohibits use of source code under these licenses.
Pre-approved	Requires approval of engineering manager	Requires Legal Counsel approval	Not approved

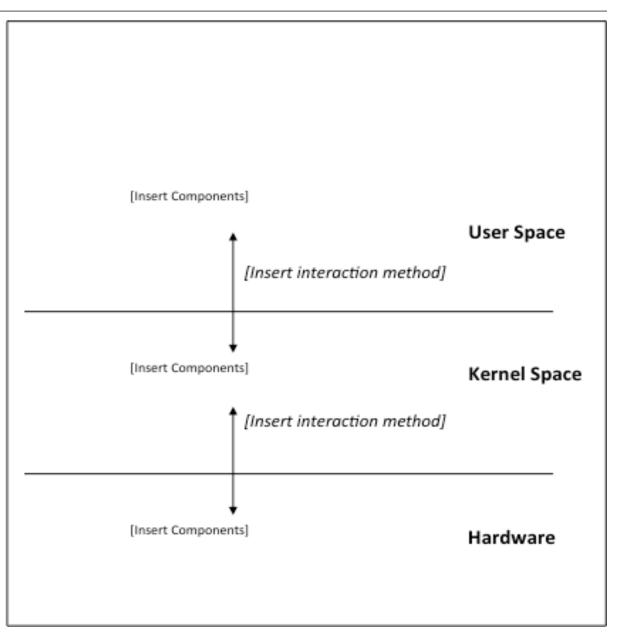
4. Approved Software (License) Interactions

The goal is to understand how a specific software component interacts with other software components and the method of interaction:

- Components that are Open Source (used "as is" or modified)
- Components that are proprietary
- Components originating from third party software providers
- Component dependencies
- Communication protocols
- Linkage method Dynamic versus static linking
- · Components that live in kernel space versus user space
- Use of shared header files
- Etc.

Software Interactions





Software Interactions

Can Dynamically Link To	License-A	License-B	License-C	License-D
License-A	X	X	Х	X
License-B		Х		Х
License-C	Х		Х	
License-D		Х	[Requires approval]	X

Can Statically Link To	License-A	License-B	License-C	License-D
License-A	X		X	
License-B		Х	[Requires approval]	
License-C	X		X	
License-D	[Requires approval]			X



Thank you.

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