

THE (NOT SO) SIMPLE CASE OF ATTRIBUTION LICENSE OBLIGATIONS

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Open Source Compliance Intel Corp.

Software Licenses

FOSS licenses stipulate

- What you may do (permissions)
 - e.g., copy the code, modify it, re-distribute it
- What you must do (obligations)
 - e.g., use the same license, mention author's name



Attribution Obligation

You have to mention the copyright holder and reproduce the license.

Sometimes only in source; others even if you don't distribute the source

- "Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution."
 - BSD-3-Clause (and others)



Attribution Obligation First Look

You have to mention the copyright holder and reproduce the license text.

Seems clear and easy enough.

Generally considered the most easily satisfiable requirement.

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Fulfilling Attribution Obligation, per file

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```
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* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

However...

Typical software packages have tens, hundreds, or thousands of files

Even if a single license is used for all files, what has to be reproduced:

- List of conditions is the same
- So is the disclaimer
- But copyright holders often differ



Typical example

OpenSSH-7.3p1

- 249 source files
- 293 copyright notice lines
- 93 different copyright notice lines



Different Copyright Notices (1)

Different copyright holders

35 different copyright holders

```
* Copyright (c) 2003 Markus Friedl. All rights reserved.
```

```
* Copyright (c) 2003 Jakob Schlyter. All rights reserved.
```

```
* Copyright (c) 2003 Markus Friedl. All rights reserved.
```

```
* Copyright (c) 2003 Nils Nordman. All rights reserved.
```

```
* Copyright (c) 2003 Wesley Griffin. All rights reserved.
```



Different Copyright Notices (2)

Differences can be subtler than copyright holders

23 different copyright notices for Markus Friedl

```
* Copyright (c) 1999, 2000 Markus Friedl. All rights reserved.
```

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- * Copyright (c) 1999, 2000, 2001, 2002 Markus Friedl. All rights reserved.

```
* Copyright (c) 2012 Markus Friedl. All rights reserved.
```

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Fulfilling Attribution Obligation

You have to reproduce

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- the list of conditions; and
- the disclaimer

for each of the files in the software package.

Software Package Data Exchange® (SPDX®)

Standard format for communicating the components, licenses, and copyrights associated with software packages.

Specific fields for info on each file:

- FileCopyrightText
- LicenseInfoInFile
- LicenseConcluded

Tricky Copyright Notices

Differences can be even subtler than copyright holders or years

• Are all these notices different? Must the complete line be reproduced?

```
* Copyright ____ Damien Miller

* Copyright (c) ____ Damien Miller.

* Copyright (c) ____ Damien Miller.

* Copyright (c) ____ Damien Miller. All rights reserved.

* Copyright (c) ____ Damien Miller <djm@mindrot.org>

* Copyright (c) ____ Damien Miller <djm@openbsd.org>

* Copyright (c) ____ Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
```

"Redistributions [...] must reproduce the above copyright notice [...]"



Trickier Cases

```
#
# Copyright (C) 2004 Free Software Foundation, Inc.
# Written by Scott James Remnant, 2004
#
# This file is free software; the Free Software Foundation gives
# unlimited permission to copy and/or distribute it, with or without
# modifications, as long as this notice is preserved.
#
```

Simplest Compliance Policy

All the issues are automagically resolved, if you simply...

deliver source code!

Conclusions

- Attribution obligation is considered easily satisfiable
- There are tricky cases
- Caution when trying simplistic approaches

SPDX is the standard format for communicating this info

Simple policy to satisfy the obligation: always deliver source

THANK YOU

Questions, comments, ...?

