

Using Open Source in Commercial Products



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Open Source Software



Open source software

- Software given to you under an open source license

Open source software license

- **Rights grant**
 - Free use, source code, right to modify, right to pass on
- **Obligations**
 - Attribution, license texts, source code provision, etc.
- **Prohibitions**
 - No endorsement, no trademark use, etc.

Benefits of Using Open Source Software



High quality software (almost) for free

No vendor lock-in, leads to

- Improved cost predictability
- Lower operational risk
- Ability to help yourself if needed

(Often) instant standards compatibility

Use-Cases of Open Source Software



In-house use

- All the rights, few to **none of the obligations**

Distribution (use in products) to third parties

- All the rights, most or **all of the obligations**

Using Open Source in Products

Giving binary code to third parties (customers) constitutes distribution



Open Source License Categories



Permissive licenses

- Example licenses: **MIT, BSD-3-Clause, Apache-2.0, ...**

Weak copyleft licenses

- Examples: **LGPL-2.1-or-later, MPL-1.1, ...**

Strong copyleft licenses

- Examples: **GPL-2.0-only, AGPL-3.0-or-later**

Permissive License Obligations

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- Change notices
- ...



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Copyright Trolls (“Monetizer”)



Review products for license violation

Require fix of violation through support

- If ignored, send cease and desist letter (“Strafbewehrte Unterlassungserklärung”)
- Ask for compensation for enforcement work

If cease and desist letter was signed

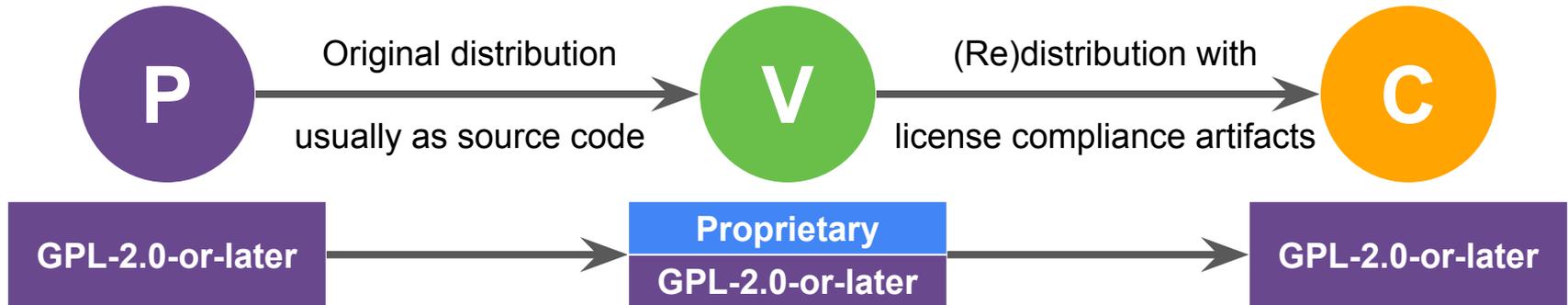
- Come back with other violations, ask for penalty
- Threaten lawsuit, follow through

Typically settle out-of-court

Copyleft (License) Obligation

Copyleft

1. Obligation that requires provision of complete and corresponding source code
2. Namesake for a whole open source license category



Copyright Enforcers (“Philosophers”)

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VMware Suit Concludes in Germany

VMware Announces Plans to Remove Non-complying Code, Hellwig Decides Not to Appeal

April 2, 2019

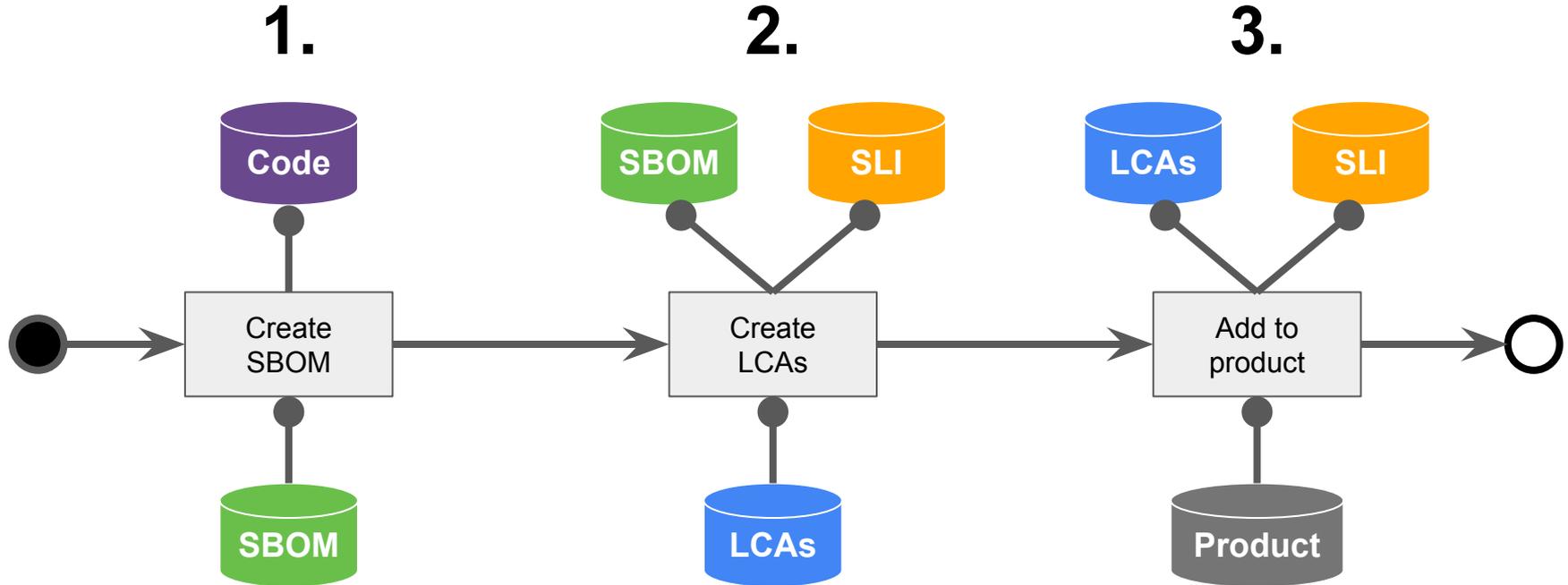
Today, Christoph Hellwig [announced](#) the conclusion of his case against VMware in Germany. The Hamburg Higher Regional Court affirmed the lower court's decision, which dismissed the case on purely procedural grounds; they did not address the main question of the case. (The February 28th decision can be found [here](#).) Hellwig has decided with his legal counsel, Till Jaeger, and after conferring with Conservancy, to not appeal the case further in German courts.

“The subject of the complaint I filed was the question of whether the distribution of the software Hypervisor vSphere VMware ESXi 5.5.0 software is copyright infringement because VMware has no permission to create a derivative work from Linux under the GNU General Public License (GPL)” says Hellwig. Both courts declined to consider that essential question.

VMware, in their news item about the decision by the Court, announced that they will [finally remove vmklinux from vSphere](#). Both Hellwig and Conservancy had asked VMware to remove the Linux code from VMware's proprietary kernel many times. While the preferred form of GPL compliance is release of the entire work under the terms of the GPL, a common alternative is to merely remove the GPL'd code from the product. VMware chose the latter method to comply.

“VMware knew what they were doing was wrong, but continued to generate revenue by infringing copyrights in Linux, while only slowly working toward non-infringement.” explained Karen Sandler, Conservancy's Executive Director. She added: “As we have always said, we simply want companies to follow the rules and do the right thing when they incorporate GPL'd code into their products.” Hellwig added: “When VMware takes this action, they will finally comply with the GPL. Reaching this goal has cost me a lot of time and energy in recent years.”

License Compliant Delivery Workflow



SBOM = Software bill of materials
SLI = Standard(ized) license interpretation
LCAs = License compliance artifacts (legal notices)

Open Source Maturity Model



1. Use
2. Contribute
3. Create and lead

Open Source Program Office



Good open source governance is state of the art

- Makes the CEO responsible (liability, “Geschäftsführerhaftung”)

Open source program office

- People / org. unit with mandate to define open source policies

Open source program office responsibilities

- Inbound and outbound governance
- Education and marketing, inside and outside company
- Provision and operation of key workflows and artifacts

What Do You Need to Get Started?



1. [License compliant delivery capability](#)
2. [Open source program office capability](#)
3. [Standardized license interpretation](#)
4. [Your first open source inventory](#)

All available through Bayave GmbH

Thank You! Any Questions?



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