OpenChain Tooling Work Group - Overview

Introduction



- Reducing resource costs and improving the quality of results
- Uses open source principles to accomplish the objective
- A meritocracy producing real world solutions for real world challenges and it shares results to all interested parties.

THELINUX FOUNDATION PROJECTS OPENCHAIN

Get Started Translations Resources Par

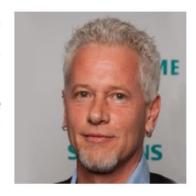
OpenChain Launches Tooling Work Group

By Shane Coughlan | July 25, 2019 | News

Today the OpenChain Project announces the launch of our global Tooling Work Group. This work group, chaired by Oliver Fendt of Siemens, will see contributors from Siemens, Bosch, Toshiba, Fujitsu, Hitachi and many other companies accelerate collaboration around open source tooling for open source compliance.

This work group is focused on reducing resource costs and improving the quality of results around open source compliance activities. We use open source principles to accomplish this, creating a meritocracy producing real world solutions for real world challenges, and sharing these results with all interested parties.

- We are making turn-key Open Source tooling for Open Source
 Compliance
- 2. We are considering what open data database(s) can support this
- 3. We plan to work with existing projects to make this bappen (FOSSology, Software Heritage, SPDX, sw360

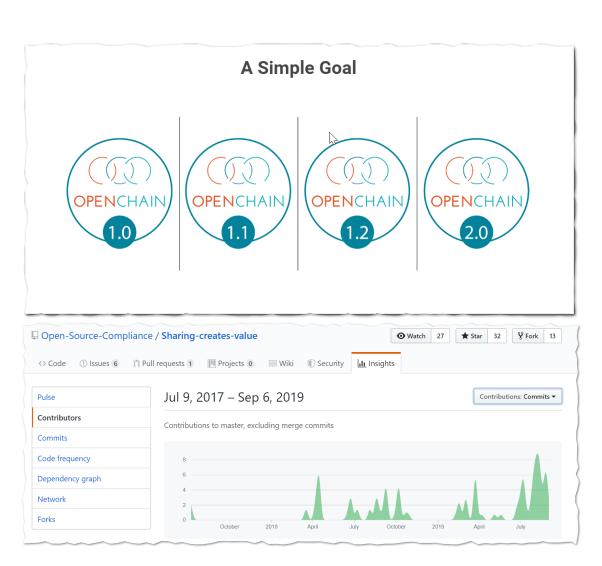


Oliver Fendt, Siemens

Hierarchy

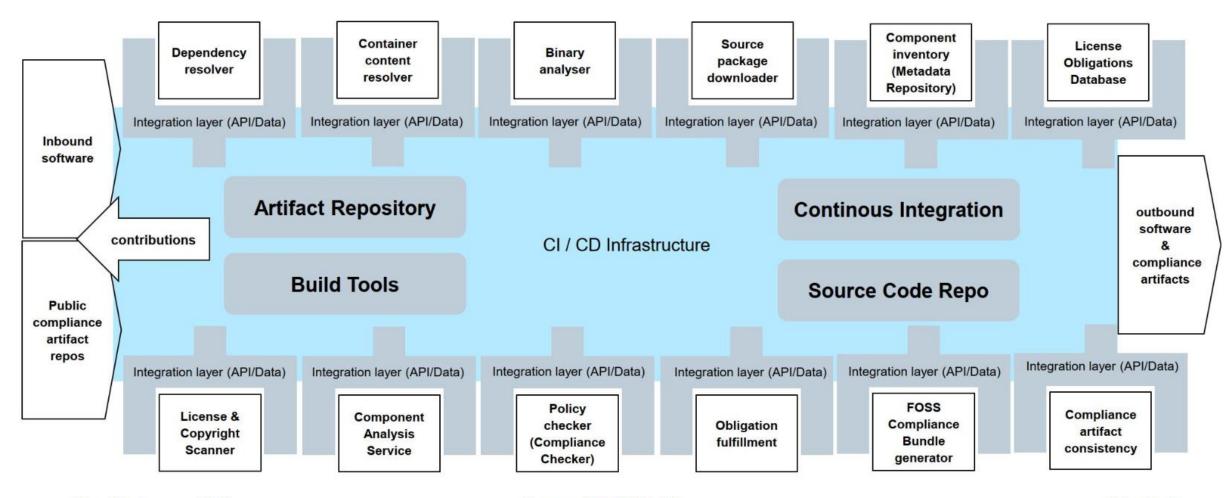


- The <u>OpenChain Project</u> maintains the standard for open source compliance in the supply chain.
- The OpenChain Project has various Work Groups where volunteers work on specific compliance challenges.
- We use the Sharing Creates Value GitHub Repository and OSS Compliance Tooling mailing list.



Big Picture – Integrated Compliance Toolchain Instance

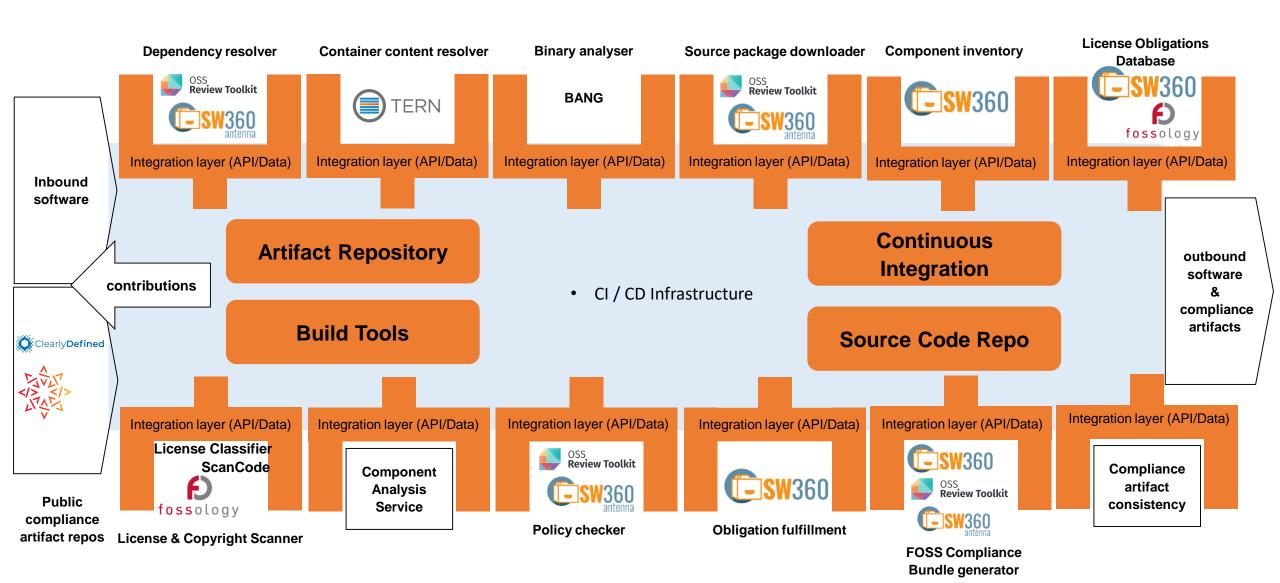




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Big Picture – Integrated Compliance Toolchain Instance



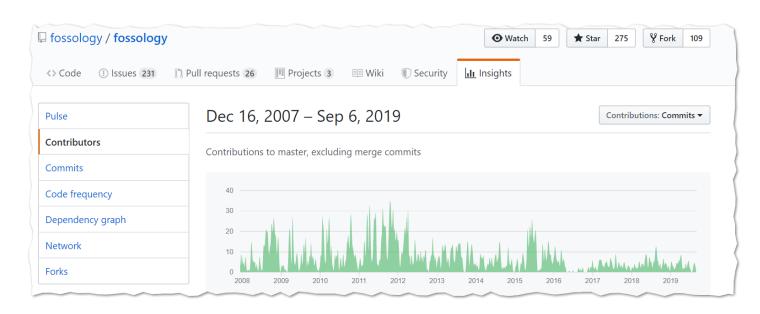


Fossology



- Scanning tool for license, copyright and export control scans.
- Can generate an SPDX file, or a ReadMe with all the copyrights notices.
- Web UI and a database for a compliance workflow.
- Scanners provided are Monk, Nomos and Ninka.
- Licensed under GPL-2.0 or 2.1



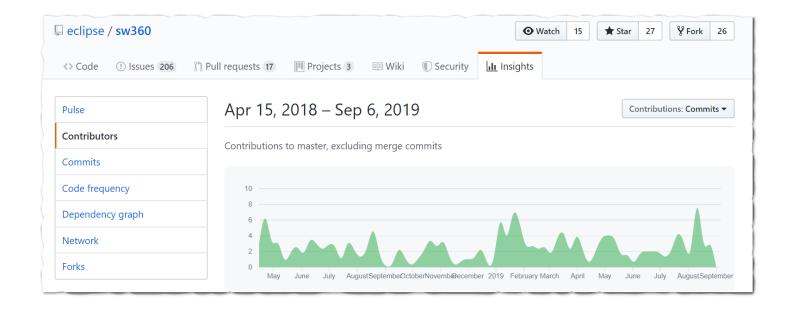


Eclipse SW360



- A software component catalogue application designed to work with FOSSology.
- SW360 is a server with a REST interface and a Liferay portal application to maintain your projects / products and the software components within.
- Licensed under EPL-2.0





Eclipse SW360 Antenna

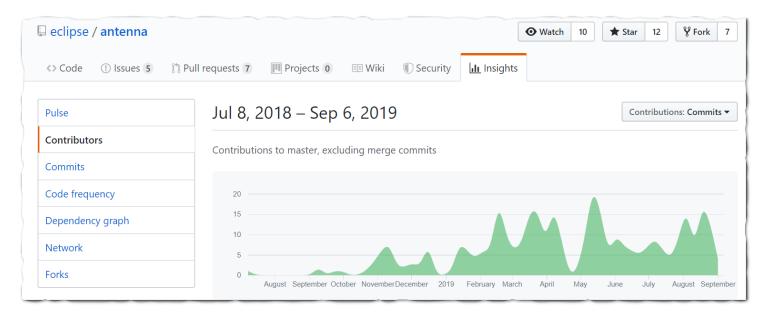


- A tool to automate your open source license compliance process.
- Collect all compliance relevant data
- Process that data and warn if there might be any license compliance related issues.
- Generate a set of compliance artifacts (source code bundle, disclosure document,

report)

Licensed under EPL-2.0



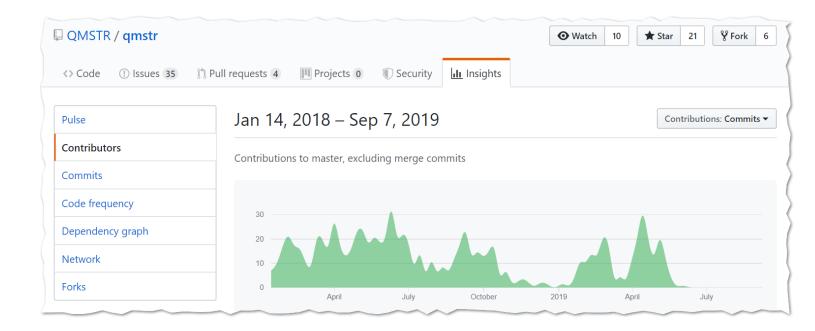


The Quartermaster Project QMSTR



- Suite of command line tools and build system extensions.
- Executes as part of a software build process to generate reports about the analyzed product.
- Part of LF's Automated Compliance Tooling (ACT) project.
- Licensed under GPL-3.0



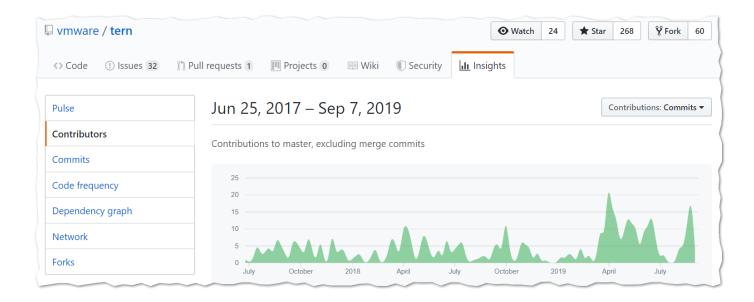


TERN



- Inspection tool to find the metadata of the packages installed in a container image.
- Default report is a verbose explanation of what layers brought in what software components.
- Licensed under BSD-2-Clause.



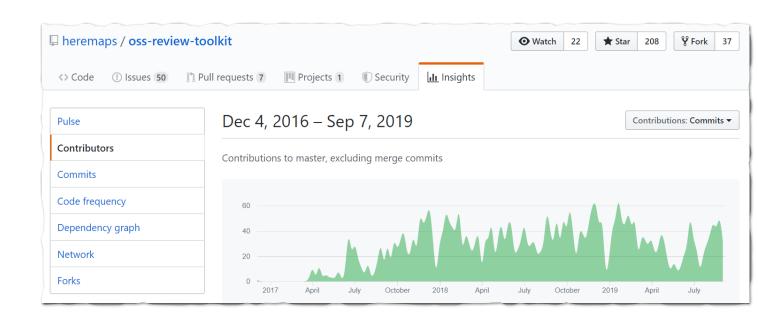


OSS Review Toolkit



- Analyses the project's build system for dependencies.
- Download and scan the source code of the dependencies for license information and summarize the results.
- Available Toolkits: Analyzer, Downloader, Scanner, Evaluator, Reporter.
- Planned Toolkits: Advisor, Documenter.
- Licensed under Apache-2.0



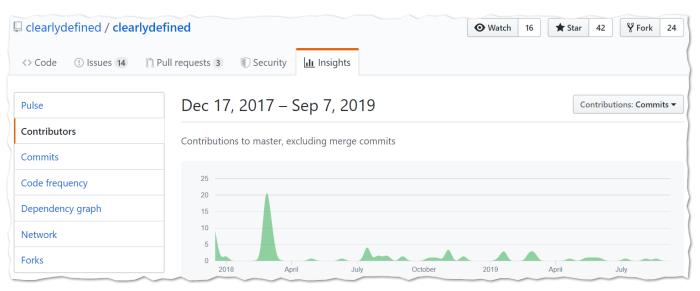


Clearly Defined



- Mission: To help FOSS projects thrive by being, well, clearly defined.
- Clearly Described
- Clearly Licensed
- Clearly Secure
- Licensed under Creative Commons CC0 1.0 Universal



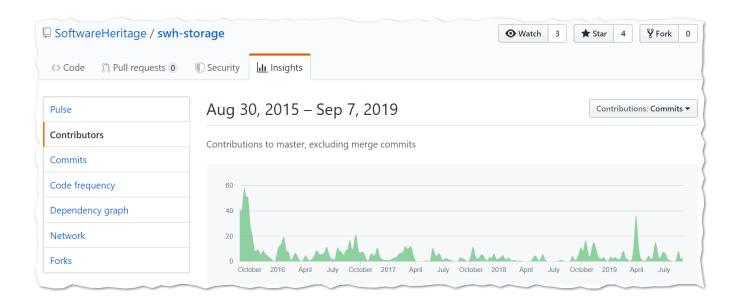


Software Heritage



- To collect, preserve, and share all software that is publicly available in source code form.
- Ensures: Availability, Traceability and Uniformity of the collected source code.
- Licensed under GPL-3.0

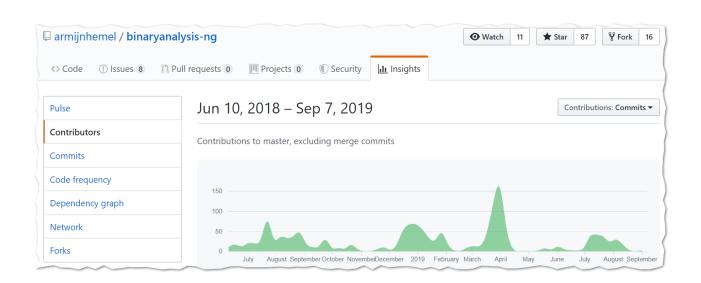




BANG — Binary Analysis - NG



- Framework for unpacking files (like firmware) recursively and running checks on the unpacked files.
- To find out the provenance of the unpacked files and classify/label files, making them available for further analysis.
- Supports around 130 different file formats.
- Licensed under AGPL-3.0

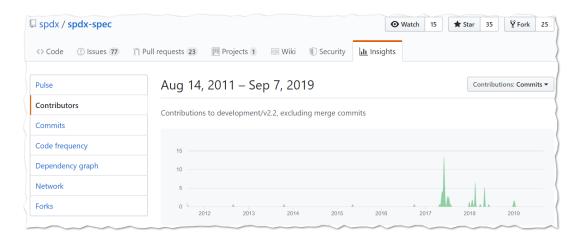


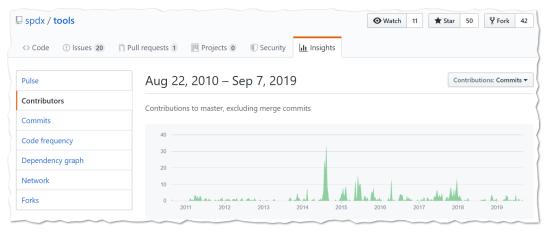
SPDX



- Open standard for communicating software bill of material information.
- For communicating the components, licenses and copyrights associated with a software package.
- Spec Licensed under Creative Commons Attribution 3.0
 Unported
- Tools Licensed under Apache-2.0





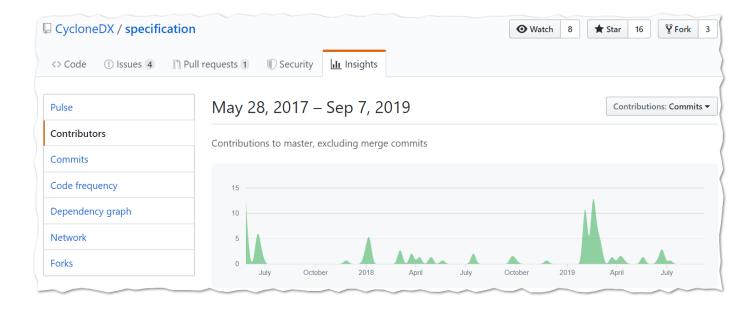


CycloneDX



- Software Bill-of-Material (SBOM) specification designed for use in application security contexts and supply chain component analysis.
- Licensed under Apache-2.0





Open Source Automation Development Lab (OSADL)

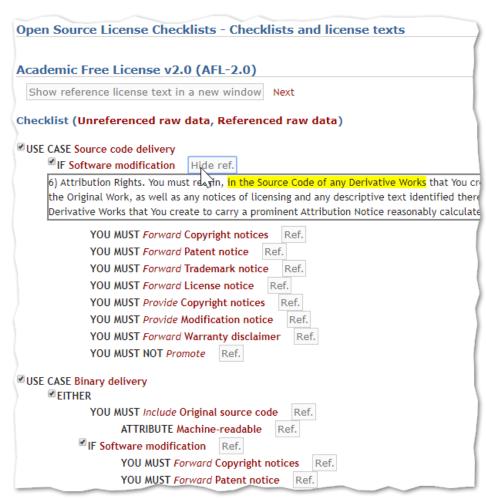


Intended to promote and coordinate the development of open source software for the machine,

machine tool, and automation industry.

Open Source License Checklists - Checklists and license texts	
License name	Project checklists
Academic Free License v2.0	AFL-2.0
Academic Free License v2.1	AFL-2.1
GNU Affero General Public License v3.0 only	AGPL-3.0-only
GNU Affero General Public License v3.0 or later	AGPL-3.0-or-later
Apache License 1.0	Apache-1.0
Apache License 1.1	Apache-1.1
Apache License 2.0	Apache-2.0
Artistic License 1.0 (Perl)	Artistic-1.0-Perl



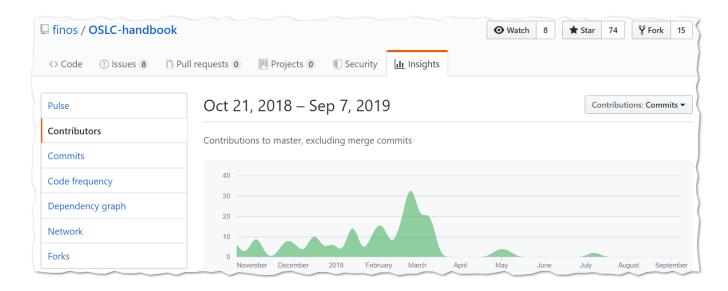


FINOS – OSLC Handbook



- Data store and handbook of practical information about complying with the most common open source licenses.
- Based on uses cases (modified/unmodified, binary/source)
- Licensed under Creative Commons Attribution-ShareAlike 4.0 International





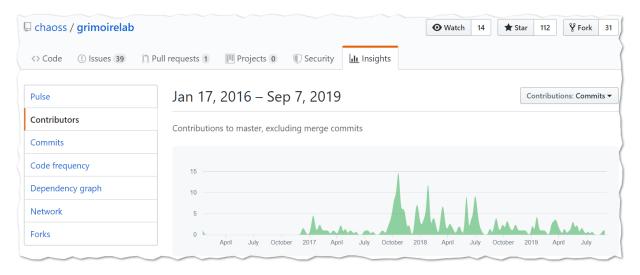
CHAOSS



- Linux Foundation project focused on creating analytics and metrics to help define community health.
- Working groups to refine the metrics and to work with software implementations.
- GrimoireLab: toolset for software development analytics
- Augur: Python library and web service for Open Source Software Health and

Sustainability metrics.







Thank You!

Arun Azhakesan

Lead – Open Source License Compliance

Siemens Healthineers, Bangalore, India

