

The OpenChain Reference Tooling Work Group

The OpenChain reference tooling work group 2020

Situation today



The use of OSS in products and services is increasing exponentially.

The OSS compliance process needs to be as automated as possible and fully integrated in the CI/CD pipelines.

An integrated OSS compliance toolchain needs to be modular, flexible and adaptable

Objective and purpose



We are building an open source compliance toolchain ecosystem with open source tools as an open source project.

To accomplish this we:

- Use existing independent tooling projects
- Provide reference workflows to allow their adoption
- Provide the concepts and glue to ensure easy interoperability and integration in existing environments
- Provide reference turnkey toolchains that can be used without fees by anybody

Objective and purpose



Reducing resource costs and improving the quality of results around open source compliance activities.

The Approach



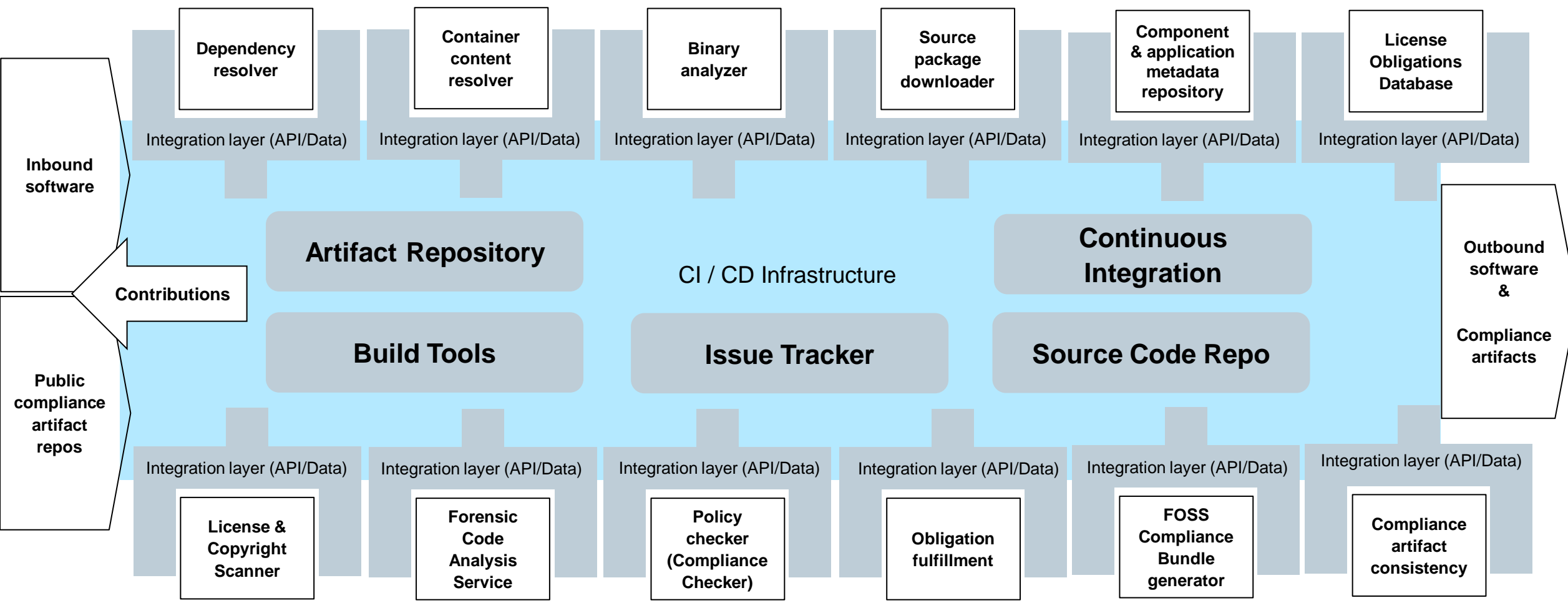
The stakeholders / users of the toolchain are identified and their interaction with it are described

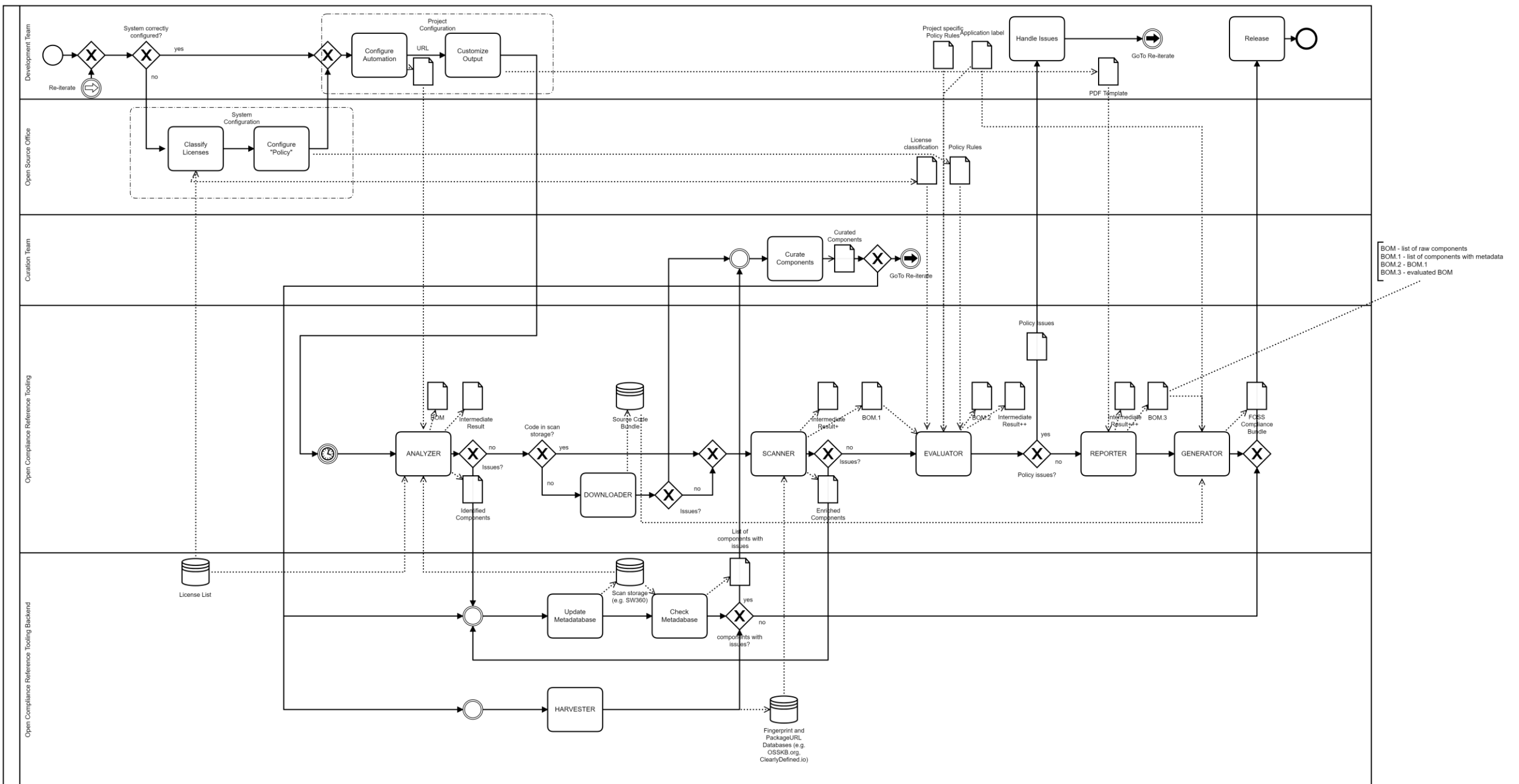
The functional building blocks of an integrated compliance toolchain are identified and described

The workflow and the flow of information is identified

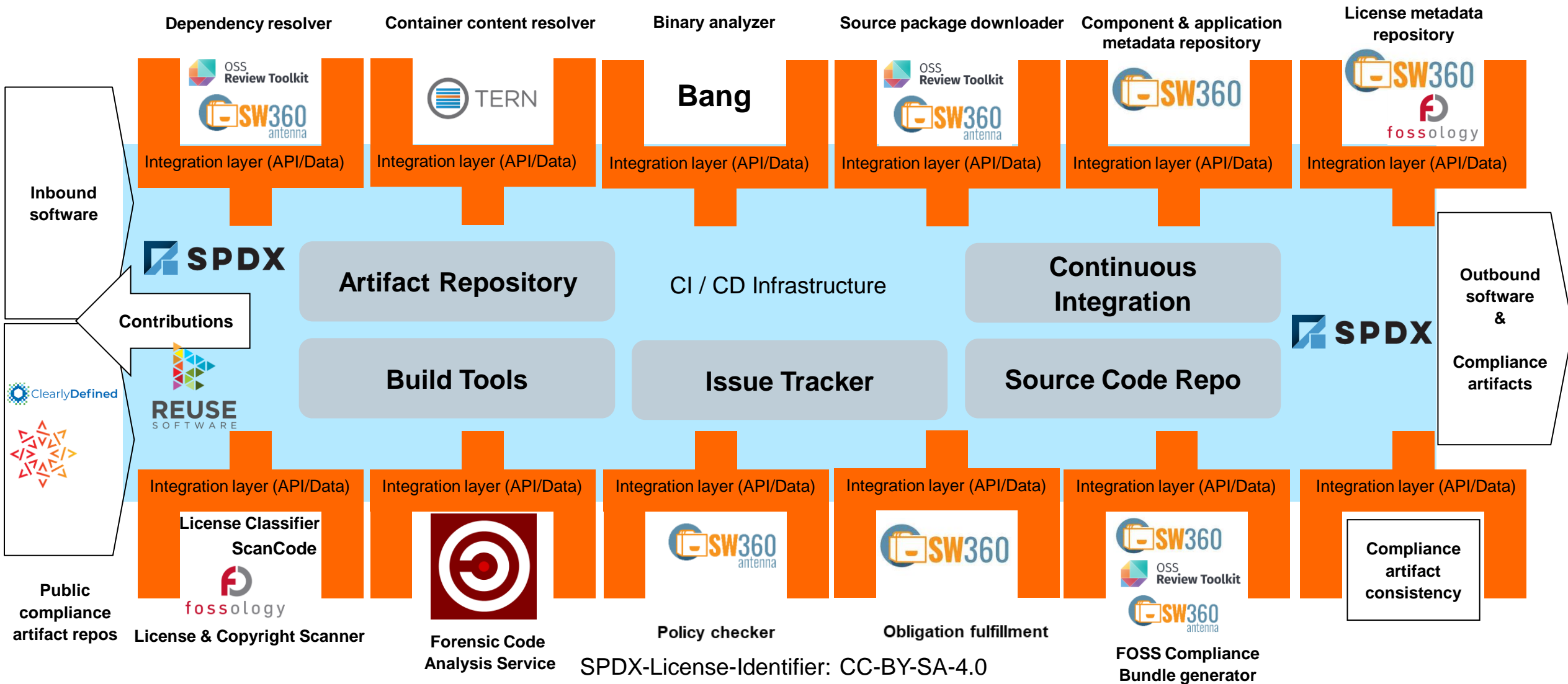
First version of a data model is available

Big Picture – Integrated Compliance Toolchain





Example Automation Implementation Using Open Source Tools



TDOSCA – Test Driven Open Source Compliance Automation



TDOSCA wants to deliver different test cases to evaluate whether a tool or a combination of tools can create the required artifacts in a suited quality. Therefor testcases will be identified and implemented. They will be offered as autonomous repositories by which Open Source Compliance tools can

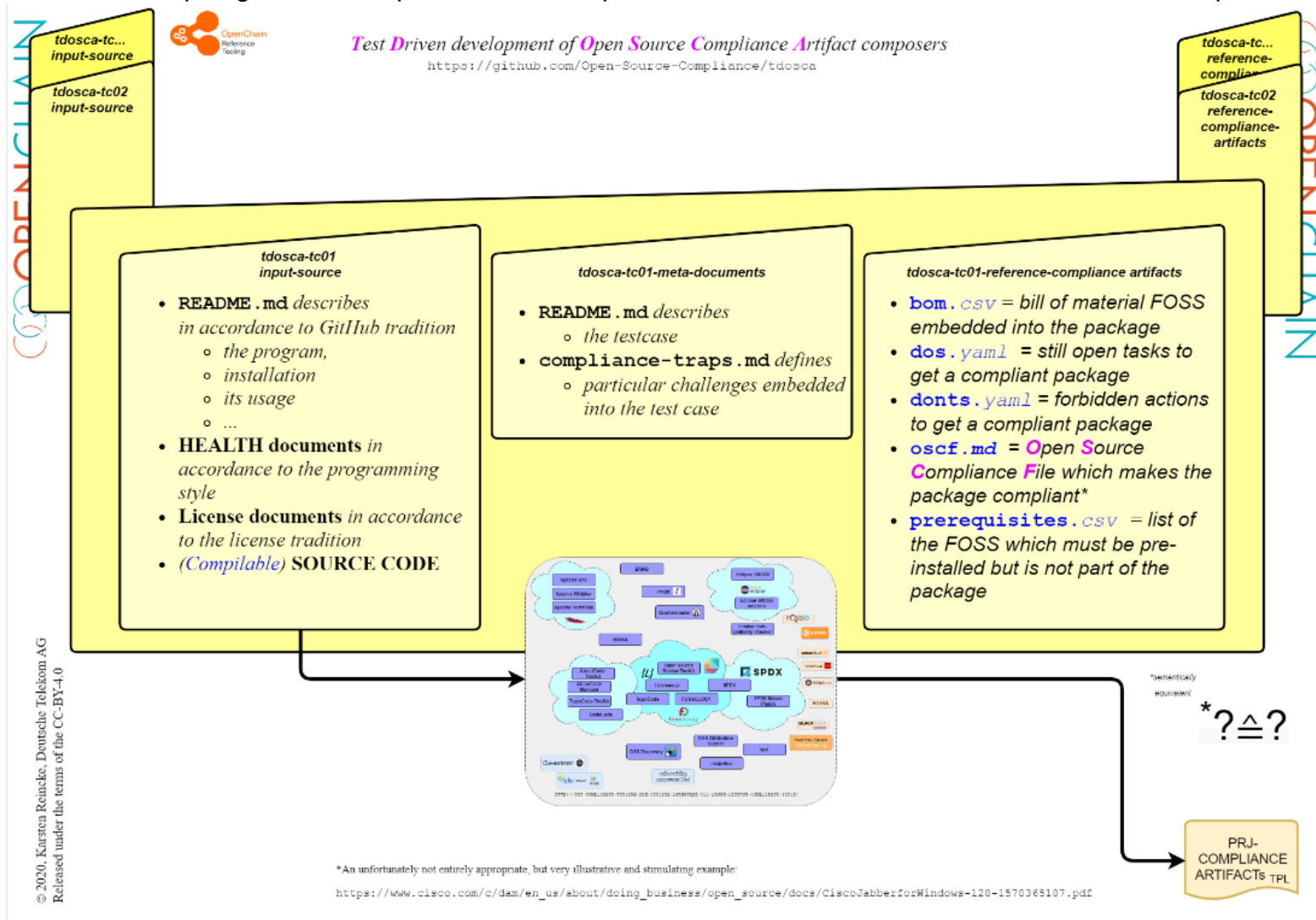
- either prove that they already successfully generate such required artifacts
- or show which parts of an imaginary compliance chain they successfully process.

For doing this job successfully, these tools must gather information about the embedded sub components on which the main component depends or they must have access to the information gathered by other tools. For finding such information the gathering tools do not only evaluate the programming language specific 'include' statements of the software itself, but the statements of respective package manager.

<https://github.com/Open-Source-Compliance/tdosca>

TDOSCA - overview

<https://github.com/Open-Source-Compliance/tdosca/blob/master/doc/tdosca-motivation.pdf>



File originates from the TDOSCA project (<https://github.com/Open-Source-Compliance/tdosca>) initiated by Deutsche Telekom AG“ License CC-BY-4.0

OSS compliance toolchain things to do



Data model needs to be completed

APIs need to be defined and described

APIs need to be implemented

Tutorials to set up and interact with the functional building blocks need to be created

Reference set up needs to be done and maintained

The OpenChain Reference Tooling Work Group



World-Wide Collaboration, World-Wide Availability



In short words



OSS license compliance for everyone

This is what we do

Your help and expertise is highly welcome

Join us

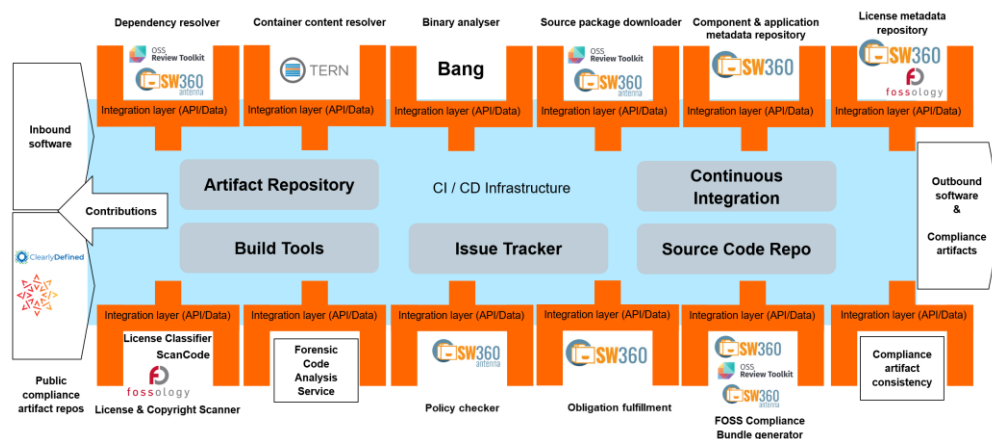
We are building an open source compliance toolchain ecosystem with open source tools as an open source project.
To accomplish this we:

- Use existing independent tooling projects
- Provide reference workflows to allow their adoption
- Provide the concepts and glue to ensure easy interoperability and integration in existing environments
- Provide reference turnkey toolchains that can be used without fees by anybody

World-Wide Collaboration, World-Wide Availability



Example Automation Implementation Using Open Source Tools



Join Us in Creating a New Era for Open Source Compliance

Mailing List: oss-based-compliance-tooling@groups.io

Subscription page: <https://groups.io/g/oss-based-compliance-tooling>

Online meetings: Bi-weekly - Invitations are sent to the mailing list

Website: <https://oss-compliance-tooling.org/>

And of course we are on GitHub:

<https://github.com/Open-Source-Compliance/Sharing-creates-value>

How to get involved



Github:

<https://github.com/Open-Source-Compliance/Sharing-creates-value>

Slack:

https://join.slack.com/t/ossbasedcompl-bhx9742/shared_invite/enQtODE2MTMxNzUyNDY1LWQyNWVINzkyMjhOWUyNDdjNDJIMzk0YzU0NDUwNzQ2YzY0Mzc1N2Y2NjhhZGEyN2JmNDE0ZTg2MTBjYmM3MWI

Mailing List:

Subscription page: <https://groups.io/g/oss-based-compliance-tooling>

Email address: oss-based-compliance-tooling@groups.io

Thank you