

Code coverage (JaCoCo)

🌐 Language: [Deutsch](#) · [English](#)

🔧 Code coverage (JaCoCo)

Code coverage with JaCoCo – offline weaving, coverage profile and report generation.

HOW-TO

DEVELOPER

UPDATED: JUL 2026

APPLIES TO NUCLOS 4.2026.X

On this page

- [Process](#)
- [Invocation](#)
- [Related pages](#)

Code coverage of the Nuclos build and the integration tests is measured with **JaCoCo** (from **v4.2024.13**).

Process

1. **Offline weaving** via the `jacoco-maven-plugin` after `javac` but before the AspectJ bytecode manipulation (runtime online weaving did not work for Nuclos due to AspectJ/Spring weaving).
2. Include the JaCoCo runtime as a dependency in all Maven modules.
3. Unit and integration tests write all coverage data to `$NUCLOS_GIT_ROOT/target/jacoco.exec`.

Invocation

Activation via the Maven profile coverage, e.g. for the Tomcat server integration tests:

```
mvn clean verify -Dlocale=de_DE -Dtest.webclient.skip=true -P coverage,test,test-tomcat
```

Create a report per module:

```
mvn jacoco:report@coverage-report
```



Sonar integration

The [Sonar code analysis](#) automatically uses the JaCoCo reports if present.

Related pages

⚙️ Sonar code analysis

Sonar.

[Open](#)

⚙️ Unit tests with TestNG or JUnit and Spring support

Unit tests.

[Open](#)