

JUnit 5 Release Notes

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Version 5.3.0-SNAPSHOT

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This document contains the *change log* for all JUnit 5 releases since 5.2 GA.

Please refer to the [User Guide](#) for comprehensive reference documentation for programmers writing tests, extension authors, and engine authors as well as build tool and IDE vendors.

5.3.0-M1

Date of Release: June 24, 2018

Scope: Parallel test execution, output capturing, test sources for dynamic tests as well as various minor improvements and bug fixes.

For a complete list of all *closed* issues and pull requests for this release, consult the [5.3 M1](#) milestone page in the JUnit repository on GitHub.

JUnit Platform

Bug Fixes

- Full stacktrace is printed to the console, when running the `ConsoleLauncher` in `--details verbose` mode.
- `ReflectionUtils.findNestedClasses()` and `ReflectionSupport.findNestedClasses()` no longer allow a `NoClassDefFoundError` to propagate if a nested class or nested interface has an invalid class file. Instead, the error will now be swallowed and logged at `WARNING` level.

Deprecations and Breaking Changes

- The `junit-platform-gradle-plugin` has been discontinued and is no longer released as part of JUnit 5. Please use [Gradle's native support](#) for running tests on the JUnit Platform (requires Gradle 4.6 or higher) instead.
- The `findAnnotation()` methods in `AnnotationSupport` and `AnnotationUtils` no longer cache annotation lookups. Note, however, that the algorithm remains otherwise unmodified and is therefore semantically identical to the previous behavior.

New Features and Improvements

- Experimental support for capturing output printed to `System.out` and `System.err` during test execution. This feature is disabled by default and can be enabled using a configuration parameter (cf. [User Guide](#)).
- Reusable support for parallel test execution for test engines that extend `HierarchicalTestEngine`.
 - `HierarchicalTestEngine` implementations may now specify a `HierarchicalTestExecutorService`
 - By default, a `SameThreadHierarchicalTestExecutorService` is used.
 - Test engines may use `ForkJoinPoolHierarchicalTestExecutorService` to support parallel test execution based on the Fork/Join Framework.

- `Node` implementations may provide a set of `ExclusiveResources` and an `ExecutionMode` to be used by `ForkJoinPoolHierarchicalTestExecutorService`.
- New overloaded variant of `isAnnotated()` in `AnnotationSupport` that accepts `Optional<? extends AnnotatedElement>` instead of `AnnotatedElement`.
- New `--fail-if-no-tests` command-line option for the `ConsoleLauncher`.
 - When this option is enabled and no tests are discovered, the launcher will fail and exit with a status code of `2`.

JUnit Jupiter

Bug Fixes

- When using `@TestInstance(Lifecycle.PER_CLASS)` semantics, registered `AfterAllCallback` extensions are no longer invoked if an exception is thrown by the test class constructor. Consequently, `AfterAllCallback` extensions are now only invoked if `BeforeAllCallback` extensions were invoked.
- Test discovery no longer halts prematurely if a nested class or nested interface in a test class has an invalid class file.
- Certain categories of errors encountered during the test discovery phase no longer cause JUnit Jupiter to prematurely abort the entire discovery process.
 - Such errors are now logged, thereby enabling JUnit Jupiter to discover and execute as many tests as possible while still informing the user of containers and tests that could not be properly discovered.

New Features and Improvements

- Experimental support for parallel test execution. By default, tests are still executed sequentially; parallelism can be enabled using a configuration parameter (please refer to the [User Guide](#) for examples and configuration options).
- New support for the IBM AIX operating system in `@EnabledOnOs` and `@DisabledOnOs`.
- New `assertThrows` methods in `Assertions` provide a more specific failure message if the supplied lambda expression or method reference returns a result instead of throwing an exception.
- New `arguments()` static factory method in the `Arguments` interface that serves as an *alias* for `Arguments.of()`. `arguments()` is intended to be used via `import static`.
- New `get<Class>(index)` Kotlin extension method to make `ArgumentsAccessor` friendlier to use from Kotlin.
- New support for supplying a custom test source `URI` when creating a dynamic container or test. See factory methods `dynamicContainer(String, URI, ...)` in `DynamicContainer` and `dynamicTest(String, URI, Executable)` in `DynamicTest` for details.

JUnit Vintage

No changes.

5.2.0

Date of Release: April 29, 2018

Scope: JUnit BOM, support for Maven Surefire 2.21.0 allowing builds with Java 9 and Java 10, *argument aggregation* and *widening primitive conversion* for arguments in parameterized tests, external factory methods for `@MethodSource`, as well as various minor improvements and bug fixes.

For complete details consult the [5.2.0 Release Notes](#) online.