

# JUnit 5 Release Notes

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Version 5.4.0-SNAPSHOT

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This document contains the *change log* for all JUnit 5 releases since 5.3 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.

## 5.4.0-M1

**Date of Release:**

**Scope:**

For a complete list of all *closed* issues and pull requests for this release, consult the [5.4.0-M1](#) milestone page in the JUnit repository on GitHub.

## JUnit Platform

### Bug Fixes

- 

### Deprecations and Breaking Changes

- 

### New Features and Improvements

- JUnit 4's `AssumptionViolatedException` is now supported in JUnit Jupiter for aborting a test mid-flight due to a failed assumption — for example, via JUnit 4's `org.junit.Assume` utility class.
- In addition to returning streams, `@TestFactory`-annotated methods may return a single `DynamicNode`, i.e. a `DynamicTest` or a `DynamicContainer`, instance.
- New `DisplayNameGenerator` interface and `@DisplayNameGeneration` annotation that allow declarative configuration of a pre-defined or custom display name generator.

## JUnit Jupiter

### Bug Fixes

- `Assertions.assertAll()` is now thread-safe, i.e. it can be used with *parallel Streams*.

### Deprecations and Breaking Changes

- 

### New Features and Improvements

-

# JUnit Vintage

## Bug Fixes

- 

## Deprecations and Breaking Changes

- 

## New Features and Improvements

- 

## 5.3.1

**Date of Release:** September 11, 2018

**Scope:** Bug fixes since 5.3.0

For a complete list of all *closed* issues and pull requests for this release, consult the [5.3.1](#) milestone page in the JUnit repository on GitHub.

# JUnit Platform

## Bug Fixes

- An `OutOfMemoryError` regression introduced in JUnit 5.3.0 has been fixed.
  - Specifically, the `NodeTestTask` used by implementations of `HierarchicalTestEngine` (such as the Jupiter and Vintage test engines) no longer retains references to contextual state after a node has completed execution. This allows state such as instances of test classes to be properly garbage collected by the JVM.
  - Previously, a `NodeTestTask` instance was created for each `TestDescriptor` before starting execution. Now they are created on the fly and can be garbage collected by the JVM after the enclosing container has finished.
- The [OpenTest4J](#) dependency has been updated to 1.1.1 to fix a serialization incompatibility between 1.0.0 and 1.1.0 that caused failure messages to be discarded when used from Gradle and potentially other tools and IDEs.

# JUnit Jupiter

## Bug Fixes

- Invocations of `assertThrows()` that are passed a method reference for an overloaded method with a `void` return type once again compile.

- For example, given an instance of `java.lang.Object` stored in a variable named `object`, `assertThrows(Exception.class, object::wait)` compiled against JUnit 5.2.0, failed to compile against JUnit 5.3.0, but now compiles against JUnit 5.3.1.

## Breaking Changes

- In order to revert the aforementioned breaking change, variants of `assertThrows()` introduced in JUnit 5.3.0 that accept `ThrowingSupplier` arguments have been removed.

## JUnit Vintage

No changes

## 5.3.0

**Date of Release:** September 3, 2018

**Scope:** Parallel test execution, output capture for `System.out` and `System.err`, new `TestInstanceFactory` extension API, custom test sources for dynamic tests, promotion of the dynamic test API from *experimental* to *maintained* status, discontinuation of the `junit-platform-gradle-plugin`, deprecation of the `junit-platform-surefire-provider`, as well as various minor improvements and bug fixes.

For complete details consult the [5.3.0 Release Notes](#) online.