JUnit 5 Release Notes

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This document contains the *change log* for all JUnit 5 releases since 5.5 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.

5.6.0-M2

Date of Release:

Scope:

For a complete list of all *closed* issues and pull requests for this release, consult the 5.6 M2 milestone page in the JUnit repository on GitHub.

JUnit Platform

Bug Fixes

- The `EventConditions.nestedContainer()` method in the Engine Test Kit now correctly handles events from multiple levels of nested classes.

Deprecations and Breaking Changes

-

New Features and Improvements

- `TestExecutionSummary.Failure` is now serializable.

JUnit Jupiter

Bug Fixes

-

Deprecations and Breaking Changes

-

New Features and Improvements

- `InvocationInterceptor` extensions may now explicitly `skip()` an intercepted invocation. This allows executing it by other means, e.g. in a forked JVM.

JUnit Vintage

Bug Fixes

-

Deprecations and Breaking Changes

-

New Features and Improvements

-

5.6.0-M1

Date of Release: October 21, 2019

Scope:

- New `@EnabledForJreRange` and `@DisabledForJreRange` execution conditions
- `@Order` allows to specify relative order
- Improvements to `@CsvSource` and `@CsvFileSource`
- Improved error reporting for failures during test discovery and execution
- Performance improvements and bug fixes for the Vintage engine
- `org.junit.platform.console` now provides a `java.util.spi.ToolProvider`
- `DiscoverySelectors` for tests in inherited nested classes

For a complete list of all *closed* issues and pull requests for this release, consult the 5.6 M1 milestone page in the JUnit repository on GitHub.

Overall Improvements

- Gradle Module Metadata is now published for all artifacts.

JUnit Platform

Bug Fixes

- Module `org.junit.platform.launcher` now reads `java.logging` due to usage of types in package `java.util.logging`.

Deprecations and Breaking Changes

- The `Launcher` now propagates errors during test discovery by default instead of only logging and thereby potentially hiding them. In order to restore the old, lenient behavior, you can set the `junit.platform.discovery.listener.default` configuration parameter to `logging`.
- To support the above feature consistently, a new `EngineDiscoveryListener` interface was introduced. `TestEngine` implementations should now notify the listener that can be accessed via the `EngineDiscoveryRequest.getDiscoveryListener()` method about each processed `DiscoverySelector`. Test engines that use `EngineDiscoveryRequestResolver` do not have to make any changes.
- In the `EngineTestKit` API, the `all()`, `containers()`, and `tests()` methods in `EngineExecutionResults` have been deprecated in favor of the new `allEvents()`, `containerEvents()`, and `testEvents()` methods, respectively. The deprecated methods will be removed in JUnit Platform 1.7.0.

New Features and Improvements

- New `printFailuresTo(PrintWriter, int)` method in `TestExecutionSummary` that allows one to specify the maximum number of lines to print for exception stack traces.
- The `junit-platform-commons` module no longer has a dependency on the `java.compiler` module (in terms of the Java Module System). Specifically, a new internal utility has been introduced in `PackageUtils` that implements functionality equivalent to `javax.lang.model.SourceVersion.isName(CharSequence)` from the `java.compiler` module.

- Exceptions thrown by test engines during discovery and execution are now reported to `TestExecutionListeners`.
- Module `org.junit.platform.console` now provides a `java.util.spi.ToolProvider` implementation that can be acquired by `ToolProvider.findFirst("junit")` when running on Java 9 or above.
- New methods in `DiscoverySelectors` to select and execute individual tests in inherited nested classes, via specific selectors (`NestedClassSelector` and `NestedMethodSelector`).

JUnit Jupiter

Deprecations and Breaking Changes

- `@EnabledIf` and `@DisabledIf` have been removed from Jupiter's API. Script-based condition APIs and their supporting implementations were deprecated in JUnit Jupiter 5.5 with the intent to remove them in JUnit Jupiter 5.6. Users must now rely on a combination of other built-in conditions or create and use a custom implementation of `ExecutionCondition` to evaluate the same conditions.
- The default `@Order` value for non-annotated `@RegisterExtension` fields and test methods is now `Integer.MAX_VALUE / 2` instead of `Integer.MAX_VALUE`. If you had previously assigned extension fields or test methods an explicit order greater than `Integer.MAX_VALUE / 2`, this may be a breaking change for you.

New Features and Improvements

- Support for multi-character delimiters in `@CsvSource` and `@CsvFileSource`.
- Support for custom `null` values in `@CsvSource` and `@CsvFileSource`.
- Documented support for comments in CSV files loaded via `@CsvFileSource`.
- Auto-detection of enum type from method signature for `@EnumSource`.
- New `@EnabledForJreRange` and `@DisabledForJreRange` annotations for enabling or disabling test execution over a range of JRE versions.
- The `@TempDir` extension now makes an attempt to delete non-writable files by making them writable first.
- The default `@Order` value for non-annotated `@RegisterExtension` fields and test methods is now `Integer.MAX_VALUE / 2` instead of `Integer.MAX_VALUE`. This allows `@Order` annotated fields and methods to be explicitly ordered after non-annotated fields and methods. For example, this allows *before* callback extensions to be registered last and *after* callback extensions to be registered first, relative to other programmatically registered extensions.
- New `junit.jupiter.execution.timeout.mode` configuration parameter to control whether timeouts are applied to tests. Supported values include `enabled`, `disabled`, and `disabled_on_debug`.
- New `TypeBasedParameterResolver<T>` abstract base class that serves as a generic adapter for the `ParameterResolver` API and simplifies the implementation of a custom resolver that supports parameters of a specific type.

JUnit Vintage

Bug Fixes

- JUnit 3 suites with duplicate test names are now reported correctly.

New Features and Improvements

- Performance improvements for projects with a large number of tests.
- Performance improvements for test classes with a large number of methods.

5.5.2

Date of Release: September 8, 2019

Scope: Bug fixes since 5.5.1

For a complete list of all *closed* issues and pull requests for this release, consult the 5.5.2 milestone page in the JUnit repository on GitHub.

Overall Improvements

- Published artifacts have been fixed regarding module descriptors.
  - Binary JAR files contain `module-info.class`.
  - Source JAR files contain `module-info.java`.
  - Javadoc JAR files contain neither `module-info.class` nor `module-info.java`.

JUnit Platform

No changes.

JUnit Jupiter

Bug Fixes

- The `JupiterTestEngine` no longer crashes without executing any tests if JUnit 4 is on the classpath but Hamcrest is not. Specifically, initialization of the `OpenTest4JAndJUnit4AwareThrowableCollector` class no longer fails if the `org.junit.internal.AssumptionViolatedException` class cannot be loaded from the classpath due to a missing Hamcrest dependency.

JUnit Vintage

No changes.

5.5.1

Date of Release: July 20, 2019

Scope: Bug fixes since 5.5.0

For a complete list of all *closed* issues and pull requests for this release, consult the 5.5.1 milestone page in the JUnit repository on GitHub.

JUnit Platform

No changes.

JUnit Jupiter

Bug Fixes

- Fix test discovery and execution of inherited `@Nested` classes.

JUnit Vintage

No changes.

5.5.0

Date of Release: June 30, 2019

Scope:

- Declarative `@Timeout` support
- New `InvocationInterceptor` extension API
- New `LifecycleMethodExecutionExceptionHandler` extension API
- Deprecation of script-based conditions (`@EnabledIf` and `@DisabledIf`)
- Configurable test discovery implementation for `TestEngine` authors
- Explicit Java module descriptors
- Various minor improvements and bug fixes

For complete details consult the 5.5.0 Release Notes online.