

Migration to Wicket 10.0

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The main topic in Wicket 10 is the migration from Javax APIs to Jakarta APIs.

As a result Wicket upgraded its dependency of Spring Framework to 6.x which also led to requirement to use Java 17 for building and running Wicket applications.

Automatic migration

Add migration recipes to Wicket 10 [WICKET-7029](#)

Apache Wicket 10 provides automatic migration based on [OpenRewrite](#).

Usage:

Maven command

```
mvn -U org.openrewrite.maven:rewrite-maven-plugin:run -Drewrite.recipeArtifactCoordinates=org.apache.wicket:wicket-migration:LATEST -DactiveRecipes=org.apache.wicket.BestPractices
```

TODO

Use stable version of Commons FileUpload [FILEUPLOAD-309](#)

Re-enable cdi-unit tests once there is a new release [cdi-unit#195](#)

Changes

WicketTester and related classes have been extracted to wicket-tester Maven module [WICKET-7072](#)

TL;DR: Add *org.apache.wicket:wicket-tester* as a test dependency to your project and fix the imports in your project.

Until now WicketTester class was a member of the wicket-core module. But it depends on JUnit to do its job and this caused problems in JPMS (Java 9+ modules) because JPMS does not support optional dependencies like Maven/Gradle do. For this reason WicketTester and the other ****Tester** classes have been extracted to a new Maven/JPMS module - **wicket-tester**. Same is valid for WebSocketTester - it has been moved to **wicket-web-socket-tester** module,

wicket-http2 module have been merged to wicket-core module [WICKET-6887](#)

Since Wicket 10.0 requires Servlet 5.0+ the HTTP2 PushBuilder abstraction has been moved from wicket-experimental/wicket-http2/wicket-http2-servlet4 and wicket-http2-core to wicket-core module.

PushHeaderItem class has been moved to package *org.apache.wicket.markup.head.http2*.

Render MarkupContainer class name as an attribute [WICKET-6890](#)

When `org.apache.wicket.settings.DebugSettings#isOutputMarkupContainerClassName()` returns `true` then the `MarkupContainer` class name should be rendered as an attribute of the component tag instead of as an HTML comment because an HTML comment may break a CSS rule, e.g. by appearing between two sibling HTML elements.

For example:

With CSS rule like `p + p {color: red;}` then the text color of any paragraph that follows another paragraph will be `red`. But if an HTML comment appears between them then the rule won't apply.

Make ApplicationContextMock smarter by delegating to DefaultListableBeanFactory [WICKET-6893](#)

`ApplicationContextMock` now uses internally an instance of `DefaultListableBeanFactory` and this way it implements almost all methods of Spring's `ApplicationContext`. In addition `ApplicationContextMock` now extends from Spring's `AbstractApplicationContext` and thus could be used fully in `AnnotProxyFieldValueFactory` and `SpringBeanLocator`.

Replace CGLib with ByteBuddy [WICKET-6913](#)

Wicket used CGLib for creating serializable proxies for classes. CGLib is not well maintained since several years and it does not work with JDK 17 where illegal access is no more allowed. For this reason its usage has been replaced with ByteBuddy library.

This is a change in implementation in `wicket-ioc` module, without API changes for the end-user applications!

Dependencies

Wicket 10 requires Java 17

Wicket 10 requires Servlet 5+

I.e. Jakarta APIs

Spring Framework to 6.x [WICKET-6940](#)

Guice to 7.x

Upgrade Guice to 7.0.0 [WICKET-7053](#)

Commons Fileupload to 2.x [WICKET-6915](#)

Jackson to 2.13.x

Upgrade Jackson to 2.13.4 [WICKET-7009](#)