

# Automation

With the popularity of Continuous Integration and Continuous Delivery practices, automated testing is gaining an increased slice of the overall testing specification. This is no surprise, since automated tests provide great benefits over manual testing. It makes the testing process faster, systematic (thus avoiding errors), and reduces the effort associated with the execution and validation.

Automated tests are implemented as code, either compiled or not. Usually, they are executed during the Continuous Integration process, triggered by code changes or on a timely basis.

Xray is the ideal tool for [managing automated Tests](#). Many [testing frameworks are supported](#), natively (e.g., [Cucumber](#)) or [indirectly](#) through the processing of execution reports upon the submission of results using Xray's [REST API](#).

## Testing Frameworks

- [Integrating with Testing Frameworks](#)  
(includes many [tutorials](#))

## Learn more

- [Working with Automated Tests](#)
- [Testing in BDD with Gherkin based frameworks \(e.g. Cucumber\)](#)
- [Using Generic Tests for Automation](#)
- [TTT: Automation \(tutorials\)](#)
- [Import Execution Results - REST](#)