TOSCA

It is used for creating automated tests. You don't have to manually work through your system under test; Tosca does it for you.

For instance:

* Navigate your system under test: click buttons, open context menus, or work through tool bars.
* Enter, save, or verify data in web applications, Excel sheets, or databases.
* Exchange messages with programming interfaces.
* And much more!

To tell Tricentis Tosca what to do and how to do it, you'll use three main elements:

* Scanning
* Modules
* TestCases

What is scanning?

Your system under test has various elements that Tosca needs to interact with. For instance: buttons, text fields, tool bars, cells in tables, SAP dialog windows, etc.

These elements are called controls.

Ultimately, you want Tosca to steer these controls. For instance: click a button, verify data in a table cell, or type text into an entry field.

To make this possible, you need to get the required technical information on these controls into Tricentis Tosca.

This is what scanning your system under test does. When you scan, Tosca performs the following actions:

* It grabs all required information on the controls that you select.
* It saves this information as a Module.

What is a Module?

Modules are the building blocks of your tests. They contain the technical information that Tosca needs to navigate and interact with your system under test.

What is a TestCase?

A TestCase is a sequence of actions that you want to perform on your system under test. These actions are called TestSteps. Each TestStep is an automated task that you would otherwise do manually.

Creation of testcase:

* Specify which Modules should make up your TestCase.

Drag and drop Modules into the order that you need. And then use your scanned Module to fill out a form at this address.

This creates TestSteps from the Modules.

* Fill out your TestSteps. For instance: enter the text that Tosca should type into a field, select an entry from the drop-down menu, or specify a regular left-click on a button.

# Workspace

Work environment in Tricentis Tosca is called workspace. This workspace is made up of various sections in which you create, design, and run your tests.

Two Types:

* Single-user workspaces for environments where only one person needs access to data.
* Multi-user workspaces for environments where several people need access to the same data. A check in / check out mechanism ensures that users don't interfere with each others work .

 several workspaces on several machines; one workspace per machine. All workspaces are connected to one common repository, which is stored in a database.

Tosca Commander is the user interface of Tricentis Tosca.

* [Checkout objects](https://documentation.tricentis.com/tosca/1520/en/content/tosca_commander/checkin_and_checkout.htm#checkout_elements) you want to work on. These objects are now locked; other users can't modify them for as long as they are checked out.

Checked-out elements don't appear dimmed and have a green block on their left side. This means that the objects are locked by you and other users can't modify them until you check them in. Objects with a red block are checked out by another user.

* [Checkin objects](https://documentation.tricentis.com/tosca/1520/en/content/tosca_commander/checkin_and_checkout.htm#checkin_elements) once you're finished with them. This frees them up for other users.

Trial runs let you check if your TestCase would work. You can try out an entire TestCase, or you can try out individual elements before the TestCase is complete. Trial runs are also useful if you want to examine failing TestCases.

# Run tests in the ScratchBook

The ScratchBook allows you to perform trial runs of your TestCases. You can combine and run the following objects: individual TestSteps, TestCases or TestCase folders. This is particularly helpful when you build a new TestCase or want to examine elements of a failing TestCase.

However, unlike with [ExecutionLists](https://documentation.tricentis.com/tosca/1520/en/content/tosca_commander/execution_lists_section.htm), Tosca Commander does not save the structure you create in the ScratchBook, nor does it store the results.

If you want to run tests in the ScratchBook, the following options are available:

* You can [add and arrange](https://documentation.tricentis.com/tosca/1520/en/content/tosca_commander/execution_scratchbook.htm#add_and_arrange) objects in the ScratchBook and then run them.
* You can [run your objects immediately](https://documentation.tricentis.com/tosca/1520/en/content/tosca_commander/execution_scratchbook.htm#run_immediately).

## Add and arrange objects in the ScratchBook

To add objects to the ScratchBook, follow the steps below:

1. Open the ScratchBook via **Home->Scratchbook**, or press **Ctrl** + **B**.
2. Drag and drop objects into the ScratchBook window. To change the sequence of your ScratchBook entries, move them via drag and drop.

You can delete any entry by pressing **Del**. If you want to remove all entries from the ScratchBook, right-click the root element and select **Clear entries** from the context menu.

To run your ScratchBook entries, press **F6**.

Test configuration parameters in ScratchBook

The tab **Test configuration** displays all [test configuration parameters you created](https://documentation.tricentis.com/tosca/1520/en/content/tosca_commander/tcp_create_tcp.htm) for your test objects in Tosca Commander. You can also create test configuration parameters in the ScratchBook.

To create a parameter for a test object, right-click the test object in the ScratchBook and select **Create Test configuration parameter** from the mini toolbar.

If you want to create a parameter for all ScratchBook entries, right-click the root element and select **Create Test configuration parameter** from the mini toolbar.

## View results

Once execution is finished, the **Loginfo** column in the ScratchBook displays the execution results of all TestSteps.