

Test Case

[Go up to Terms and Definitions](#)

Discussion

A Test Case specifies the [Test Steps](#) and [Expected Results](#) used to verify a defined subject.

As a [Sequenced Test Object](#), a Test Case can contain or reference a [Test Sequence](#). The Test Sequence establishes the order and progression of the [Sequence Steps](#) associated with the Test Case.

A Test Case can identify:

- Its identity
- Its name
- Its [Test Purpose](#)
- Its version
- The subject being verified
- The applicable [Test Items](#)
- The applicable [System Under Test](#)
- The applicable [Test Environments](#)
- The applicable Test Sequence
- The applicable Test Steps
- The applicable [Test Executables](#)
- The applicable Test Arguments
- The applicable Test Argument Values
- The applicable Expected Results
- The applicable entry conditions
- The applicable completion conditions
- The applicable evaluation criteria
- The applicable [Governance Policies](#)
- Its [Provenance](#)
- Its [Traceability](#)

A Test Case can participate in one or more [Test Sets](#).

A Test Case can reference reusable Test Steps and Test Executables without containing copies of them. Each [Sequence Step](#) identifies the occurrence of a Test Step or Test Executable within the Test Sequence.

Definition

[Sequenced Test Object](#) that specifies the [Test Steps](#) and [Expected Results](#) used to verify a defined subject

Source

Adapted from:

- [OMG Test Information Interchange Format \(TestIF\), Version 1.0 Beta 3, Section 7.3.5, TestCase](#)
- [Test Object](#)
- [Sequenced Test Object](#)
- [Test Set](#)
- [Test Step](#)
- [Test Sequence](#)
- [Expected Result](#)
- DIDO Reference Implementation Conceptual Model
- DIDO-TE draft Requirements Register

OMG TestIF defines TestCase as the set of steps necessary to verify something. TestIF permits a Test Case to contain any number of Test Steps organized through a Test Sequence.

This definition preserves the TestIF verification purpose while identifying both Test Steps and Expected Results as essential characteristics of a Test Case.

Note

Every Test Case is a [Sequenced Test Object](#) and therefore a [Test Object](#).

A Test Case differs from a [Test Set](#):

- A Test Case specifies the Test Steps and Expected Results used to verify a defined subject
- A Test Set groups related Test Objects for a defined Test Purpose

A Test Case differs from a [Test Step](#):

- A Test Case identifies the complete verification unit
- A Test Step identifies one action or validation performed as part of a Test Sequence

A Test Case differs from a [Test Executable](#):

- A Test Case specifies what the Test verifies
- A Test Executable contains or references low-level procedural or executable information used for automated [Test Execution](#)

A Test Case differs from a [Test Result](#):

- A Test Case specifies the verification to perform
- A Test Result records an outcome produced by Test Execution

A Test Case differs from a [Test Run](#):

- A Test Case specifies the verification unit

- A Test Run records an identified execution and its Test Results

A Test Case can reference more than one [Test Item](#). The applicable Test Definition identifies which Test Item or collection of Test Items constitutes the subject being verified.

A change to the Test Purpose, Test Steps, Test Sequence, Expected Results, or evaluation criteria can create a new Test Case version when the change affects Test Execution, reproducibility, comparison, or validation.

Example

A [DIDO-TE](#) Test Case verifies that a proposed DIDO transaction produces the required successor state.

The Test Case references:

- The applicable [Test Items](#)
- The applicable [Test Environment](#)
- A [Test Sequence](#)
- A Test Step that submits the transaction
- A Test Step that observes transaction distribution
- A Test Step that observes validation by the participating [Nodes](#)
- A Test Step that retrieves the resulting [DIDO](#) state
- An Expected Result identifying the required successor state

During Test Execution, the [Test Run](#) records the Test Case version, execution context, and resulting [Test Results](#).

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