

Test Step

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Discussion

A Test Step specifies one action or validation performed as part of a [Test Sequence](#).

As a [Sequenced Test Object](#), a Test Step can contain or reference a Test Sequence that decomposes the Test Step into subordinate Test Steps or [Test Executables](#).

A Test Step can specify an action that:

- Creates a [Data Object](#)
- Submits a transaction
- Sends or receives a message
- Invokes an operation
- Changes a configuration
- Changes a network condition
- Changes a state
- Advances or modifies time
- Starts or stops a [Node](#)
- Introduces a fault
- Retrieves information
- Captures [Evidence](#)

A Test Step can specify a validation that:

- Observes a value
- Observes a state
- Observes a state transition
- Evaluates a condition
- Compares an observed value with an [Expected Result](#)
- Confirms an event
- Confirms the absence of an event
- Confirms satisfaction of an evaluation criterion
- Produces a [Test Result](#)

A Test Step can identify:

- Its identity
- Its name
- Its description
- Its version
- Its action or validation
- Its applicable [Test Items](#)
- Its applicable [Test Environments](#)
- Its Test Arguments

- Its Test Argument Values
- Its Expected Results
- Its completion condition
- Its failure condition
- Its timeout
- Its applicable [Governance Policies](#)
- Its [Provenance](#)
- Its [Traceability](#)

A [Sequence Step](#) identifies the occurrence of a Test Step at a particular position in a Test Sequence. The same Test Step can participate in multiple Test Sequences or occur more than once within the same Test Sequence.

Definition

[Sequenced Test Object](#) that specifies one action or validation performed as part of a [Test Sequence](#)

Source

Adapted from:

- [OMG Test Information Interchange Format \(TestIF\), Version 1.0 Beta 3, Section 7.3.16, TestStep](#)
- [Test Object](#)
- [Sequenced Test Object](#)
- [Test Case](#)
- [Test Sequence](#)
- [Sequence Step](#)
- DIDO Reference Implementation Conceptual Model
- DIDO-TE draft Requirements Register

OMG TestIF defines TestStep as an action or validation performed as part of a Test Sequence. TestIF permits Test Steps to contain other Test Steps so that a Test Step can decompose a larger action or validation.

Note

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

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

- A Test Step specifies a reusable action or validation
- A Sequence Step identifies an occurrence of a Sequenced Test Object at a position within a Test Sequence

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

- A Test Step specifies one action or validation
- A Test Case specifies the Test Steps and Expected Results used to verify a defined subject

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

- A Test Step specifies an action or validation independently of a particular execution mechanism
- A Test Executable contains or references low-level procedural or executable information used to automate an action or validation

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

- A Test Step specifies the action or validation to perform
- A Test Result records the outcome produced by performing the Test Step

A Test Step can have one or more Expected Results when the action or validation produces or evaluates multiple independently identified outcomes.

A Test Step can be performed manually or automatically. The Test Step definition remains independent of the execution mechanism.

A change to the action, validation, Expected Results, completion condition, failure condition, or timeout can create a new Test Step version when the change affects [Test Execution](#), reproducibility, comparison, or validation.

Example

A [DIDO-TE Test Case](#) verifies a proposed DIDO state transition.

One Test Step submits a proposed transaction to a participating [Node](#).

Another Test Step observes the resulting [DIDO](#) state and compares it with the applicable Expected Result.

The [Test Sequence](#) uses separate [Sequence Steps](#) to identify the order in which the two Test Steps occur.

During [Test Execution](#), the [Test Run](#) records the [Test Result](#) associated with each executed Test Step.

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