

Test Item

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Discussion

A Test Item is a [Test Object](#) that identifies an entity within the scope of a [Test](#).

A Test Item can identify:

- The complete [System Under Test](#)
- A component of the System Under Test
- A [Distributed System](#)
- A [Node](#)
- A [Node Set](#)
- A service
- An interface
- A [Communication Endpoint](#)
- A [Data Object](#)
- An [Immutable Data Object](#)
- A [Distributed Immutable Data Object \(DIDO\)](#)
- A configuration
- A communication path
- A supporting test component
- An external system
- Another entity relevant to the Test

A Test Item identifies what participates in or affects the Test. The applicable [Test Definition](#) determines whether the Test Item constitutes the subject being evaluated, a supporting participant, a test instrument, or another relevant entity.

A Test Item can contain or reference other Test Items. This permits a Test Item to represent a composite entity such as a Distributed System, Node Set, application, subsystem, or multi-component service.

A Test Item can identify:

- Its identity
- Its type
- Its version
- Its configuration
- Its role in the Test
- Its relationship to other Test Items
- Its relationship to the System Under Test
- Its applicable constraints
- Its applicable [Governance Policies](#)
- Its [Provenance](#)
- Its [Traceability](#)

A Test Item can participate in a [Test Environment](#) associated with a [Sequenced Test Object](#).

The Sequenced Test Object can identify the Test Items relevant to a:

- [Test Set](#)
- [Test Case](#)
- [Test Step](#)
- [Test Executable](#)

A [Test Run](#) records the execution context associated with the Test Items used during [Test Execution](#).

A [Test Result](#) can reference the Test Item whose behavior, state, value, or outcome contributed to the recorded result.

Definition

[Test Object](#) that identifies an entity within the scope of a [Test](#)

Source

Adapted from:

- [OMG Test Information Interchange Format \(TestIF\), Version 1.0 Beta 3, Section 7.3.8, TestItem](#)
- [Test Object](#)
- [Test Environment](#)
- [Distributed Immutable Data Object Test Environment \(DIDO-TE\)](#)
- [DIDO Reference Implementation Conceptual Model](#)
- [DIDO-TE draft Requirements Register](#)

OMG TestIF defines TestItem as an entity within the scope of a Test and permits Test Items to describe the System Under Test and related objects. This definition preserves that scope while distinguishing a Test Item from the Test Objects that specify execution or record results.

Note

A Test Item is not necessarily the [System Under Test](#).

The System Under Test is the Test Item, or collection of Test Items, whose behavior, properties, state, or outcomes the [Test](#) evaluates.

Supporting Test Items can include:

- Test drivers
- Test harnesses
- Simulators

- Emulators
- Monitoring components
- External services
- Data sources
- Time sources
- Communication components
- Evidence-collection components

A Test Item differs from a [Test Environment](#):

- A Test Item identifies an entity within the scope of the Test
- A Test Environment identifies the configured combination of Test Items, resources, conditions, and controls within which the Test is executed

A Test Item differs from a [Sequenced Test Object](#):

- A Test Item identifies an entity within the scope of the Test
- A Sequenced Test Object identifies test information that can participate in a [Test Sequence](#)

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

- A Test Item identifies an entity within the scope of the Test
- A Test Set groups Test Sets, Test Cases, and related Test Objects for a defined testing purpose

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

- A Test Item identifies an entity within the scope of the Test
- A Test Case identifies the steps and [Expected Results](#) used to verify something

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

- A Test Item identifies an entity within the scope of the Test
- A Test Step identifies an action or validation performed as part of a Test Sequence

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

- A Test Item identifies an entity within the scope of the Test
- A Test Executable identifies low-level procedural or executable information used for automated Test Execution

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

- A Test Item identifies an entity participating in or relevant to the Test
- A Test Result records an outcome produced during Test Execution

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

- A Test Item identifies an entity participating in or relevant to the Test
- A Test Run records an identified Test Execution, its execution context, and its Test Results

The same entity can participate as a Test Item in multiple Tests. Each Test Definition identifies the role and applicable configuration of the Test Item for that Test.

Example

A [DIDO-TE](#) Test evaluates a changed DIDO Node within a five-Node Distributed System.

The Test Items include:

- The changed [Node](#) as part of the System Under Test
- Four validated reference Nodes as other parts of the System Under Test
- The [DIDO](#) whose state transitions the Test evaluates
- A transaction generator as a supporting Test Item
- A network-condition controller as a supporting Test Item
- An [Evidence](#) collector as a supporting Test Item

The [Test Definition](#) identifies each Test Item and its role.

The applicable [Test Case](#), [Test Sequence](#), [Test Steps](#), and [Expected Results](#) specify how DIDO-TE evaluates the Test Items.

The resulting [Test Run](#) and [Test Results](#) preserve the Test Item identities, versions, configurations, and roles applicable to the execution.

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