

Test Item

[Go up to Terms and Definitions](#)

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 [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](#)

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 Object types that define 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 Case](#):

- A Test Item identifies an entity within the scope of a Test
- A Test Case identifies the actions, conditions, and Expected Results used to verify something

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

- A Test Item identifies an entity
- A Test Step identifies an action or validation performed during a Test Sequence

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

- A Test Item identifies an entity participating in or relevant to a Test
- A Test Result records an outcome produced during [Test Execution](#)

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 Test Items do not define the execution order or the Expected Results; the Test Case, Test Sequence, and related Test Objects define those aspects.

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