

Test Set

[Go up to Terms and Definitions](#)

Discussion

A Test Set groups related [Test Objects](#) for a defined [Test Purpose](#).

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

A Test Set can group:

- Other Test Sets
- [Test Cases](#)
- [Test Steps](#)
- [Test Executables](#)
- [Test Items](#)
- [Test Environments](#)
- Other related Test Objects

A Test Set can organize Test Objects according to:

- A capability
- A requirement
- A feature
- A behavior
- A scenario
- A risk
- A [Test Item](#)
- A [System Under Test](#)
- A [Test Environment](#)
- A test category
- A test phase
- A validation objective
- An Implementation Profile

A Test Set can identify:

- Its identity
- Its name
- Its Test Purpose
- Its version
- Its member Test Objects
- Its Test Sequence
- Its applicable Test Items
- Its applicable Test Environments
- Its applicable [Governance Policies](#)

- Its [Provenance](#)
- Its [Traceability](#)

A Test Set can be reused within multiple [Test Definitions](#) when its identity, version, membership, Test Sequence, and applicable conditions remain controlled.

Definition

Sequenced Test Object that groups related [Test Objects](#) for a defined [Test Purpose](#)

Source

Adapted from:

- [OMG Test Information Interchange Format \(TestIF\), Version 1.0 Beta 3, Section 7.3.15, TestSet](#)
- [Test Object](#)
- [Sequenced Test Object](#)
- [Test Case](#)
- [Test Sequence](#)
- DIDO Reference Implementation Conceptual Model
- DIDO-TE draft Requirements Register

OMG TestIF defines TestSet as a SequencedTestObject that can serve as a container for multiple Test Sets, Test Cases, and related Test Objects.

The DIDO-TE definition preserves the TestIF grouping function while expressing the distinguishing characteristic without defining Test Set in terms of itself.

Note

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

A Test Set can contain or reference another Test Set. Each nested Test Set retains its own identity, version, Test Purpose, membership, Provenance, and Traceability.

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

- A Test Set groups related Test Objects
- A Test Case identifies the Test Steps and [Expected Results](#) used to verify something

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

- A Test Set groups Test Objects
- A Node Set groups [Nodes](#) for a defined purpose

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

- A Test Set groups Test Objects
- A Test Plan identifies the objectives, scope, resources, responsibilities, schedule, and approach governing planned testing

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

- A Test Set provides an identified grouping of Test Objects
- A Test Definition specifies the controlled information required to conduct and evaluate a [Test](#)

A Test Set does not need to contain copies of its member Test Objects. It can reference independently identified and versioned Test Objects.

A change to the membership, Test Purpose, Test Sequence, or applicable conditions of a Test Set can create a new Test Set version when the change affects [Test Execution](#), reproducibility, comparison, or validation.

Example

A [DIDO-TE](#) interoperability Test Set groups:

- A [Test Case](#) for transaction submission
- A Test Case for transaction distribution
- A Test Case for state-transition validation
- A Test Case for state convergence
- A Test Case for recovery after a [Node](#) interruption

Each Test Case references the applicable:

- [Test Items](#)
- [Test Environment](#)
- [Test Steps](#)
- [Test Executables](#)
- [Expected Results](#)

During Test Execution, the [Test Run](#) records the [Test Results](#) associated with the Test Cases and other executed Test Objects in the Test Set.

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