

Test Result

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Discussion

A Test Result is a [Test Object](#) that records an outcome associated with a [Sequenced Test Object](#) or [Sequence Step](#).

A Test Result can record an outcome produced during [Test Execution](#) or derived later through evaluation or arbitration.

A Test Result can identify:

- Its identity
- Its name
- Its description
- Its result value
- Its applicable [Verdict](#)
- Its start time
- Its completion time
- Its completion status
- Its related Sequenced Test Object
- Its related Sequence Step
- Its applicable [Test Run](#)
- Its applicable [Test Items](#)
- Its observed values
- Its applicable [Expected Results](#)
- Its evaluation criteria
- Its error information
- Its supporting [Evidence](#)
- Its applicable [Governance Policies](#)
- Its [Provenance](#)
- Its [Traceability](#)

A Test Result can represent an outcome for a:

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

Definition

[Test Object](#) that records an outcome associated with a [Sequenced Test Object](#) or [Sequence Step](#)

Source

Adapted from:

- [OMG Test Information Interchange Format \(TestIF\), Version 1.0 Beta 3, Section 7.3.11, TestResult](#)
- [Test Object](#)
- [Sequenced Test Object](#)
- [Sequence Step](#)
- [Test Run](#)
- DIDO Reference Implementation Conceptual Model
- DIDO-TE draft Requirements Register

OMG TestIF defines TestResult as a TestObject that provides an outcome from executing a test and maintains a reference to the applicable SequencedTestObject and, when applicable, SequenceStep.

OMG TestIF permits a tool or external arbiter to assign a result value or Verdict during or after execution. This definition preserves that capability.

Note

Every Test Result is a [Test Object](#).

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

- A Test Result records a particular outcome
- A Test Run records the execution context and collects the applicable Test Results

A Test Result differs from an [Expected Result](#):

- An Expected Result specifies an anticipated value, state, event, or condition
- A Test Result records an observed or derived outcome

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

- A Test Result records the outcome and its supporting information
- A Verdict classifies the Test Result according to defined criteria

A Test Result can exist without a Verdict when:

- Test Execution remains incomplete
- The required Evidence remains unavailable
- Evaluation has not occurred
- Arbitration remains pending
- The applicable criteria do not require a Verdict

A Test Result can receive a Verdict during Test Execution or through later evaluation or arbitration.

A Test Result for a higher-level Sequenced Test Object can derive from multiple lower-level Test Results. The applicable arbitration rules determine how lower-level Test Results contribute to the higher-level Test Result.

A failed lower-level Test Result does not necessarily cause every related higher-level Test Result to fail. The applicable evaluation or arbitration criteria determine that outcome.

A Test Result does not by itself constitute a [Validation Decision](#). A Validation Decision uses applicable Test Results, Verdicts, Evidence, and decision criteria to determine whether the evaluated subject satisfies its defined purpose.

Example

A [Test Step](#) requires a [Node](#) to accept a valid transaction and return its transaction identifier.

The Test Result records:

- The related Test Step
- The related Sequence Step
- The submitted transaction
- The observed response
- The returned transaction identifier
- The start time and completion time
- The applicable Expected Result
- The comparison between the observed and expected outcomes
- The assigned Verdict
- The supporting [Evidence](#)

The applicable [Test Run](#) contains the Test Result and preserves its relationship to the performed Test Step and Sequence Step.

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