

Test Run State

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Discussion

A Test Run State identifies the lifecycle condition of a [Test Run](#) at a particular time.

A Test Run changes from one Test Run State to another in response to lifecycle events occurring during [Test Execution](#).

A Test Run State can identify whether the Test Run:

- Has not started
- Is ready to start
- Is running
- Is paused
- Completed its defined execution
- Terminated without completing its defined execution

The standard Test Run States are:

- **Not Started**
- **Ready**
- **Running**
- **Paused**
- **Completed**
- **Terminated**

Not Started identifies a Test Run that exists but has not begun Test Execution.

Ready identifies a Test Run for which the applicable prerequisites have been satisfied and which can begin Test Execution.

Running identifies a Test Run actively performing its applicable [Test Sequence](#), [Sequence Steps](#), [Test Steps](#), or [Test Executables](#).

Paused identifies a Test Run whose Test Execution has temporarily stopped and can resume according to the applicable control rules.

Completed identifies a Test Run that satisfied its defined completion condition.

Terminated identifies a Test Run that stopped without satisfying its defined completion condition.

A Test Run in the Terminated state has an applicable [Test Run Termination Reason](#).

A Test Run State can identify:

- Its name

- Its description
- Its entry condition
- Its exit condition
- Its permitted preceding states
- Its permitted following states
- Its applicable lifecycle events
- Its applicable [Governance Policies](#)
- Its applicable [Authority](#)
- Its recorded time
- Its [Evidence](#)
- Its [Provenance](#)
- Its [Traceability](#)

A Test Run record can preserve each Test Run State transition, including:

- The preceding Test Run State
- The following Test Run State
- The event causing the transition
- The time of the transition
- The [Actor](#) requesting or causing the transition
- The applicable Governance Policies
- The result of the transition
- The supporting Evidence

Definition

lifecycle condition of a [Test Run](#) at a particular time

Source

Adapted from:

- [OMG Test Information Interchange Format \(TestIF\), Version 1.0](#)
- [Test Run](#)
- [Test Execution](#)
- DIDO Reference Implementation Conceptual Model
- DIDO-TE draft Requirements Register

OMG TestIF provides Test Run, Test Result, and Verdict concepts for exchanging test information and execution results.

OMG TestIF does not prescribe the DIDO-TE Test Run lifecycle states defined on this page. This definition introduces Test Run State for DIDO-TE operational control, lifecycle management, Evidence, Provenance, and Traceability.

Note

A Test Run has exactly one current Test Run State at a particular time.

The current Test Run State does not replace the history of Test Run State transitions. A Test Run record can preserve every state occupied by the Test Run and every transition among those states.

A Test Run State differs from a [Test Run Termination Reason](#):

- A Test Run State identifies the lifecycle condition of a Test Run
- A Test Run Termination Reason identifies why a Test Run entered the Terminated state

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

- A Test Run State identifies the lifecycle condition of a Test Run
- A Verdict expresses an evaluation of a [Test Result](#)

A Test Run can enter the Completed state and still produce a Test Result assigned a failing Verdict.

A Test Run can enter the Terminated state without producing sufficient Test Results to assign a conclusive Verdict.

The **Completed** state means the Test Run satisfied its defined completion condition. It does not mean:

- Every Test Result received a passing Verdict
- The tested system satisfied every applicable [Requirement](#)
- A favorable [Validation Decision](#) was made
- No errors or warnings occurred

The **Terminated** state means the Test Run stopped without satisfying its defined completion condition. The applicable Test Run Termination Reason identifies why it stopped.

The **Paused** state differs from the Terminated state because a paused Test Run remains eligible to resume.

The applicable Governance Policies determine:

- Which Actors can initiate a Test Run
- Which Actors can pause or resume a Test Run
- Which Actors can cancel a Test Run
- Which Test Run State transitions are permitted
- Which Evidence must be preserved for each transition

Example

An authorized [User](#) creates a Test Run for a selected [Test Definition](#).

The Test Run progresses through the following Test Run States:

- **Not Started** when DIDO-TE creates the Test Run record
- **Ready** after DIDO-TE confirms the applicable [Starting Conditions](#)
- **Running** when Test Execution begins
- **Paused** when an authorized User requests a temporary suspension
- **Running** when the authorized User resumes Test Execution
- **Completed** when the Test Run satisfies its defined completion condition

DIDO-TE records each transition and preserves the applicable Actor, time, reason, Governance Policies, and Evidence.

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