

Incomplete Test Run

[Go up to Terms and Definitions](#)

Discussion

An Incomplete Test Run is a [Test Run](#) that terminated without satisfying its defined completion condition.

An Incomplete Test Run has:

- A Terminated [Test Run State](#)
- A [Test Run Termination Reason](#)
- An unsatisfied completion condition

An Incomplete Test Run can have the following Test Run Termination Reason:

- Failed
- Interrupted
- Timed Out
- Canceled

An Incomplete Test Run can preserve valid information produced before termination, including:

- Completed [Sequence Steps](#)
- Completed [Test Steps](#)
- Performed [Test Executables](#)
- Applied [Test Argument Values](#)
- Observations
- Measurements
- Events
- Outputs
- [Test Results](#)
- [Verdicts](#)
- [Evidence](#)
- [Provenance](#)
- [Traceability](#)

The applicable [Acceptance Criteria](#) determine whether information produced by an Incomplete Test Run can be used for:

- Analysis
- Diagnosis
- Comparison
- Regression analysis
- Baseline establishment
- [Validation](#)
- A [Validation Decision](#)

- Another defined purpose

Definition

Test Run that entered the Terminated [Test Run State](#) without satisfying its defined completion condition

Source

Adapted from:

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

OMG TestIF provides Test Run, Test Result, and Verdict concepts but does not define Incomplete Test Run as a separate TestIF model element.

This definition introduces Incomplete Test Run to distinguish a Test Run that failed to satisfy its completion condition from a completed Test Run producing a Test Result assigned a failing Verdict.

Note

An Incomplete Test Run is a Test Run in the Terminated Test Run State.

A Test Run that is Not Started, Ready, Running, or Paused has not yet completed, but it is not classified as an Incomplete Test Run because its [Test Execution](#) has not terminated.

A Test Run becomes an Incomplete Test Run when:

- Test Execution stops
- The Test Run enters the Terminated Test Run State
- The defined completion condition remains unsatisfied

An Incomplete Test Run differs from a completed Test Run assigned a failing Verdict:

- An Incomplete Test Run did not satisfy its completion condition
- A completed Test Run assigned a failing Verdict satisfied its completion condition and produced a Test Result that did not satisfy the applicable [Expected Result](#) or [Validation Criteria](#)

An Incomplete Test Run does not imply that every Test Result produced before termination is invalid.

The applicable Acceptance Criteria determine:

- Which partial Test Results remain valid
- Which Evidence remains usable
- Whether the Test Run can resume
- Whether DIDO-TE must create a new Test Run
- Whether the Test Run can participate in a comparison
- Whether the Test Run can contribute to a [Baseline](#)
- Whether the Test Run can support a Validation Decision
- Whether the Test Run must be repeated

A paused Test Run is not an Incomplete Test Run because it remains eligible to resume.

A canceled Test Run is an Incomplete Test Run when cancellation causes it to enter the Terminated state before satisfying its completion condition.

A timed-out Test Run is an Incomplete Test Run when expiration of an applicable [Timeout](#) causes it to enter the Terminated state before satisfying its completion condition.

Example

A Test Run contains ten [Sequence Steps](#).

The Test Run successfully completes the first six Sequence Steps. During the seventh Sequence Step, an [Execution Facility](#) becomes unavailable and Test Execution cannot continue.

DIDO-TE:

- Stops Test Execution
- Changes the Test Run State from **Running** to **Terminated**
- Assigns **Interrupted** as the Test Run Termination Reason
- Classifies the Test Run as an Incomplete Test Run
- Preserves the Test Results produced by the first six Sequence Steps
- Records the affected Sequence Step
- Records the unavailable Execution Facility
- Preserves the supporting Evidence
- Maintains Provenance and Traceability

The applicable Acceptance Criteria determine whether the preserved Test Results can be used and whether DIDO-TE must repeat the entire Test Run or resume from an approved Sequence Step.

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