

STC-003 — Establish a Test Timeline

[Go to C.3.5 State and Time Control Requirements](#)

Statement

The [DIDO-TE](#) SHALL establish the **test timeline** specified by the governing [Test Definition](#).

Source

- [\[DTE1\] U.S. Patent Application US20220237111A1](#), defined and artificial timelines for testing, simulation, and training; virtual system time independent of real time
- [\[DTE3\] Broad Agency Announcement White Paper](#), State and Time Control
- [\[DTE5\] DIDO-TE Requirements Register](#), State and Time Control source requirements

Rationale

Distributed-system behavior may depend upon the temporal context in which test activities occur.

A **test timeline** provides the temporal context against which activities within a [Test Environment](#) are executed and interpreted.

The governing [Test Definition](#) specifies the test timeline required for the test. DIDO-TE establishes that timeline for use during [Test Execution](#).

The **test timeline** is distinct from **wall-clock time**. DIDO-TE source material permits test time to be independent of real time and permits the temporal behavior of a test to be controlled without requiring equivalent passage of wall-clock time.

Establishing a test timeline is distinct from setting its starting point, controlling its rate, or resetting it. Those obligations are governed separately by STC-004, STC-005, and STC-006.

This requirement does not prescribe a clock implementation, simulation engine, time service, synchronization protocol, or operating-system time mechanism.

Applies To

- [DIDO-TE](#)
- [Test Environment](#)
- [Test Definition](#)
- [Test Execution](#)
- [Configuration](#)

Verification

Verification confirms that:

1. The governing Test Definition specifies a test timeline.
2. The specified test timeline is established before it is used during Test Execution.
3. The established test timeline can be distinguished from wall-clock time.
4. The established test timeline is traceable to the governing Test Definition.
5. Establishment of the test timeline does not require a particular clock service, simulation engine, time-synchronization protocol, or operating-system time mechanism.

Verification includes a Test Definition specifying a test timeline and confirms that the specified timeline exists as the temporal context for Test Execution.

Traceability

Plugin Backlinks: Nothing was found.

ConOps Relationship

This requirement establishes the **test timeline** used as the temporal context for Test Execution.

STC-004 sets the timeline starting point, STC-005 controls the rate at which the timeline progresses, and STC-006 resets the timeline for repeated execution.

Delivery Phase

TBD

Requirement Status

Draft

Statement Reference

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{{section>dido:03-dido-te:99-annexes:annex-c-requirements:03-functional-requirements:03-05-state-and-time-control-requirements:stc-003-establish-a-test-timeline#Statement&noheader&nofooter&noeditbtn}}
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