

ENV-004d — Control Time Sources

[Go to ENV-004 — Provide Deterministic Test Environment](#)

Statement

For each [Test Execution](#), the [DIDO-TE](#) SHALL control or measure and record each time source identified by the applicable [Test Definition](#).

Derived From

- [ENV-004 — Provide Deterministic Test Environment](#)
- [\[DTE5\] DIDO-TE Requirements Register](#), source requirement identifier and obligation to be assigned
- [\[DTE6\] Structured Information Processing Reference Architecture \(SIP-RA\)](#)
- [\[DTE7\] Federated Data Interpretation Systems Reference Architecture \(FDIS-RA\)](#)

Rationale

Time affects event ordering, scheduling, timeout behaviour, expiration, retries, message processing, transaction processing, security controls, and the interpretation of [Test Results](#).

A distributed [Test Environment](#) may contain multiple physical, virtual, simulated, monotonic, or externally supplied time sources. Differences among these sources include offset, drift, precision, resolution, synchronisation status, adjustment behaviour, and leap-second handling.

Where the Test Definition requires a fixed, simulated, or otherwise controlled time source, the DIDO-TE supplies and maintains that source. Where controlling a time source would distort the behaviour under test, the DIDO-TE measures and records its characteristics and variation.

Explicit control or observation of time sources permits investigators to distinguish time-related environmental variation from the behaviour of the [Test Object](#).

Applies To

- [Test Environment](#)
- [Test Definition](#)
- [Test Execution](#)
- [Test Object](#)
- [Node](#)
- [Test Resource](#)
- [Configuration](#)
- [Constraint](#)

Referenced By

Plugin Backlinks: Nothing was found.

Related Architecture Sections

- Add links to the architecture sections governing time-source control, clock synchronisation, timestamping, event correlation, environmental monitoring, Evidence, and Traceability.

Delivery Phase

Assign the applicable delivery phase.

Requirement Status

Draft

Statement Reference

Use the following syntax to reference this requirement's Statement section from another DokuWiki page:

```
{{section>dido:03-dido-te:99-annexes:annex-c-requirements:02-test-environment-requirements:env-004-provide-deterministic-test-environment:env-004d-control-time-sources#Statement&noheader&nofooter&noeditbtn}}
```

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