

# Sequence Step

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## Discussion

A Sequence Step identifies an occurrence of a [Sequenced Test Object](#) at a particular position within a [Test Sequence](#).

A Sequence Step references one Sequenced Test Object, such as a:

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

A Sequence Step can identify:

- Its identity
- Its name
- Its description
- Its referenced Sequenced Test Object
- Its applicable [Test Argument Values](#)
- Its applicable [Expected Results](#)
- Its applicable [Test Items](#)
- Its preconditions
- Its starting condition
- Its completion condition
- Its failure condition
- Its timeout
- Its permitted following Sequence Steps
- Its progression conditions
- Its error-handling path
- Its applicable [Governance Policies](#)
- Its [Provenance](#)
- Its [Traceability](#)

A Sequence Step can use [Test Argument Values](#) to supply occurrence-specific inputs to the referenced Sequenced Test Object.

A Sequence Step can also establish progression to one or more following Sequence Steps. Progression can depend on:

- Completion of the current Sequence Step
- A [Test Result](#)
- A [Verdict](#)
- A measured value
- An observed event

- A timeout
- An error
- Another defined condition

## Definition

*position within a [Test Sequence](#) that references an occurrence of a [Sequenced Test Object](#) and identifies permitted progression*

## Source

Adapted from:

- [OMG Test Information Interchange Format \(TestIF\), Version 1.0 Beta 3, Section 7.3.4, SequenceStep](#)
- [Test Sequence](#)
- [Sequenced Test Object](#)
- [Test Argument Value](#)
- DIDO Reference Implementation Conceptual Model
- DIDO-TE draft Requirements Register

OMG TestIF defines SequenceStep as a directed-graph node contained within a TestSequence. The SequenceStep references the SequencedTestObject represented at that position and identifies the SequenceSteps that can follow it.

OMG TestIF also permits a SequenceStep to provide ArgumentValues for the input variables of its referenced SequencedTestObject.

This definition preserves those characteristics while describing Sequence Step independently of a specific graph-storage or implementation technology.

## Note

A Sequence Step differs from a [Test Step](#):

- A Test Step specifies a reusable test action or [Validation](#)
- A Sequence Step identifies an occurrence of a Sequenced Test Object at a particular position within a Test Sequence

A Sequence Step can reference a Test Step, but the Sequence Step and Test Step remain separate objects.

The same Test Step can occur at multiple positions within one Test Sequence. Each occurrence uses a separate Sequence Step.

A Sequence Step differs from a [Test Sequence](#):

- A Test Sequence defines the overall order and progression
- A Sequence Step identifies one position within that progression

A Sequence Step differs from a [Sequenced Test Object](#):

- A Sequenced Test Object defines reusable test content
- A Sequence Step identifies an occurrence of that content within a Test Sequence

The same Sequenced Test Object can participate in:

- Multiple Test Sequences
- Multiple positions within one Test Sequence
- Multiple branches within one Test Sequence
- Multiple [Test Runs](#)

Each Sequence Step can provide different Test Argument Values, Expected Results, progression conditions, or other occurrence-specific information.

A Sequence Step does not copy or redefine the referenced Sequenced Test Object. It supplies the information needed to use that object at a particular position.

Multiple initial Sequence Steps can identify parallel starting paths.

Multiple following Sequence Steps can identify:

- Parallel progression
- Conditional progression
- Alternative paths
- Error-handling paths

The Test Sequence must provide sufficient conditions to distinguish parallel progression from conditional or alternative progression.

A Sequence Step defines permitted progression. The applicable Test Run records the progression that actually occurred during [Test Execution](#).

A [Test Result](#) can reference both:

- The Sequenced Test Object whose performance produced the outcome
- The Sequence Step that identifies the particular occurrence of that object

This dual reference distinguishes results produced by multiple occurrences of the same Sequenced Test Object.

## Example

A reusable [Test Step](#) submits a proposed transaction to a [Node](#).

A [Test Sequence](#) contains three Sequence Steps that reference the same Test Step:

- Sequence Step SS-01 supplies the [Endpoint](#) and identity of Node A
- Sequence Step SS-02 supplies the Endpoint and identity of Node B

- Sequence Step SS-03 supplies the Endpoint and identity of Node C

Each Sequence Step supplies occurrence-specific [Test Argument Values](#) while reusing the same Test Step.

During [Test Execution](#), the [Test Run](#) records:

- Whether each Sequence Step occurred
- The Test Argument Values used for each occurrence
- The start time and completion time of each occurrence
- The [Test Result](#) produced by each occurrence
- The [Verdict](#) assigned to each Test Result
- The progression path followed after each occurrence
- The supporting [Evidence](#)

Although all three Sequence Steps reference the same Test Step, each Test Result remains traceable to the particular Node and Sequence Step that produced it.

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