

Regression Test

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Discussion

A Regression Test is a [Test](#) performed after a [Change](#) to determine whether the Change adversely affected previously verified behavior.

Regression Tests may be needed after:

- A defect correction
- A software enhancement
- A [Configuration](#) Change
- A data-model or schema Change
- A dependency Change
- Replacement of a software or hardware component
- Modification of a [Test Asset](#)
- A Change to an external service or operational environment

The applicable Regression Tests may be selected using the [Maintained Item](#), its identified dependencies, expected Change effects, applicable [Requirements](#), [Maintainability Criteria](#), and conditions of the applicable [Change Authorization](#).

Definition

test performed after a change to determine whether previously verified behavior has been adversely affected

Source

[DIDO Reference Architecture, Regression Testing](#), adapted

ISO/IEC/IEEE 29119-1:2022, Software and systems engineering — Software testing — Part 1: General concepts, supporting source

Note

Regression Testing is the activity of selecting and performing one or more Regression Tests. A Regression Test is an individual Test used in that activity.

A Regression Test examines behavior that was verified before the Change. Verification of the

intended Change itself remains a separate activity.

An applicable Regression Test may be newly defined or may reuse an existing Test. Change-impact analysis may determine that only a subset of available Regression Tests applies to a particular Change.

A successful Regression Test indicates that the examined previously verified behavior was not adversely affected under the Test conditions. It does not establish that no other regression exists.

Example

A Change replaces a [Test Executable](#) dependency. A previously successful Test is performed again to determine whether the replacement altered the Test Executable's previously verified behavior. In this use, the repeated Test is a Regression Test.

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Last update: **2026/09/12 17:42**

