

Constraint

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Discussion

A Constraint establishes a boundary within which an entity exists, operates, or participates in a system. It restricts one or more characteristics, values, relationships, configurations, behaviors, or operating conditions.

A requirement states an obligation. A Constraint restricts the acceptable ways in which an entity satisfies an obligation. A requirement may establish, apply, or govern one or more Constraints.

Constraints associated with a [Test Environment](#) include environmental, security, deployment, communication, resource, timing, and configuration restrictions.

Definition

condition that restricts the permitted characteristics, values, relationships, configurations, behaviors, or operating circumstances of an entity

Source

Dido Solutions, Inc. and Jackrabbit Consulting, Inc. Project definition.

Note

A Constraint does not necessarily constitute an independent requirement. A requirement establishes an obligation when it requires a system or responsible entity to impose, enforce, validate, or comply with the Constraint.

A Constraint should identify:

- The entity subject to the restriction
- The restricted characteristic, value, relationship, configuration, behavior, or operating circumstance
- The permitted boundary or condition
- The circumstances under which the restriction applies
- The source or authority establishing the restriction

Example

A Test Environment description specifies that every participating Node uses an approved communication protocol. The protocol restriction constitutes a Constraint. The requirement directing DIDO-TE to record and enforce the restriction establishes the corresponding obligation.

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