

Configuration

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Discussion

A Configuration specifies or records the characteristics, values, relationships, constraints, and settings associated with a subject.

The configured subject can include:

- An [Infrastructure Environment](#)
- An [Infrastructure Resource](#)
- A [Platform](#)
- A service
- A software component
- A network
- A security control
- An [Artifact](#)

A Configuration identifies information such as:

- Property values
- Resource selections
- Relationships among resources
- Constraints
- Dependencies
- Enabled or disabled capabilities
- Security settings
- Operational parameters
- References to governing policies or Baselines

A Configuration can describe:

- A required state
- A planned state
- A deployed state
- An observed state
- A prior state

The context in which the Configuration is used determines which type of state it represents.

A Configuration differs from [Declarative Configuration](#):

- Configuration is the general concept for information that specifies or records the characteristics of a subject
- Declarative Configuration specifies the required state of a subject without prescribing the sequence of operations used to establish that state

A Configuration also differs from an [Infrastructure Configuration](#):

- Configuration applies to any configured subject
- Infrastructure Configuration applies specifically to Infrastructure Resources, Infrastructure Environments, and their relationships

Definition

information that specifies or records the characteristics, values, relationships, constraints, and settings associated with a subject

Source

Dido Solutions, Inc. and Jackrabbit Consulting, Inc.

Note

A Configuration does not by itself establish that the configured subject is:

- Valid
- Approved
- Authorized
- Deployed
- Operational
- Secure
- Compliant
- Consistent with an observed state

Separate requirements and processes govern those determinations.

A Configuration can be represented as:

- Human-readable text
- Machine-readable data
- A structured document
- A database record
- A model
- A generated [Artifact](#)
- A composition of multiple controlled inputs

The term does not prescribe a configuration language, schema, file format, storage mechanism, management tool, or implementation technology.

Example

A Configuration for a compute resource identifies its processor allocation, memory allocation, storage relationships, network relationships, operating-system settings, security controls, and monitoring settings.

A Declarative Configuration uses such information to specify the required result without prescribing the procedural sequence used to establish it.

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