

Operational Requirement

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Discussion

An Operational Requirement specifies a required condition, capability, constraint, or interaction associated with the operation of a system within its intended environment.

An Operational Requirement may address:

- Operational actors and roles
- Operating environments
- Operational conditions
- Mission scenarios
- System availability
- Deployment locations
- Connectivity conditions
- Security classifications
- Administrative boundaries
- Operational interactions
- Concurrent operations
- Distributed operations
- Operational constraints
- [Operational Lifecycle](#) conditions

An Operational Requirement establishes the circumstances under which the system operates or the operational outcome required within those circumstances.

An Operational Requirement differs from a functional requirement:

- An Operational Requirement specifies a required operational condition, capability, constraint, or interaction
- A functional requirement specifies behavior the system performs

An Operational Requirement may constrain or provide context for multiple functional requirements.

An Operational Requirement differs from a [Mission Objective](#):

- A Mission Objective states a high-level result that the system achieves in furtherance of its mission
- An Operational Requirement specifies the operational conditions, capabilities, interactions, or constraints associated with achieving that result

Operational Requirements may apply across:

- [Connected Environments](#)
- [Disconnected Environments](#)
- [Air-Gapped Environments](#)

- Classified environments
- Unclassified environments
- Centralized environments
- Distributed environments
- Concurrently managed environments

Definition

requirement that specifies a condition, capability, constraint, or interaction associated with operation of a system within its intended environment

Source

Dido Solutions, Inc. and Jackrabbit Consulting, Inc.

Note

An Operational Requirement should identify, as applicable:

- The system or operational subject
- The operational actor or role
- The applicable operating environment
- The required operational condition or capability
- The applicable constraint
- The required interaction
- The operational boundary
- The observable result

An Operational Requirement should remain independent of unnecessary implementation detail.

Verification of an Operational Requirement may require:

- Operational demonstrations
- Scenario-based testing
- Environment inspection
- Role and interaction testing
- Connectivity testing
- Concurrent-operation testing
- Distributed-operation testing

An Operational Requirement does not replace the lower-level functional, performance, security, reliability, logging, or data requirements needed to define the detailed system behavior.

Example

An Operational Requirement specifies that Crucible operates in Connected, Disconnected, and Air-Gapped Environments. Functional and security requirements then define the behaviors and controls required within each operating condition.

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