

C.2 Operational Requirements

[Go to Crucible Requirements](#)

The Operational Requirements define the actors, deployment environments, operational classifications, concurrency needs, and management scope within which [Crucible](#) operates.

These requirements establish the operational conditions that constrain and guide the functional, security, reliability, performance, maintainability, data management, and interoperability requirements.

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Requirement Summary

Requirement	Source Statement
OR-001	The system SHALL support operation by Developers, DevSecOps Engineers, Platform Engineers, System Administrators, Security Engineers, and Compliance Officers
OR-002	The system SHALL support deployment into AWS, Azure, Google Cloud Platform, VMware, OpenShift, Kubernetes, Bare Metal Infrastructure, and Air-Gapped Environments
OR-003	The system SHALL support classified and unclassified deployment environments
OR-004	The system SHALL support deployment and management of multiple environments simultaneously
OR-005	The system SHALL support centralized management of distributed environments

Assessment Approach

Each Operational Requirement page:

1. Preserves the source statement
2. Evaluates the source statement using the Specification Discipline and Authoring framework
3. Confirms and classifies defects using the Common Specification Weakness Enumeration

4. Provides a normalized requirement statement
5. Identifies applicable actors, environments, activities, and constraints
6. Defines ordered verification statements
7. Identifies outgoing traceability
8. Uses wiki backlinks for incoming traceability
9. Identifies additional concepts that require entries in the shared Terms and Definitions corpus

Shared Terms and Definitions

The Operational Requirements use or introduce concepts that should link to the shared Terms and Definitions corpus, including:

- [Crucible](#)
- [Connected Environment](#)
- [Disconnected Environment](#)
- [Air-Gapped Environment](#)
- [Infrastructure Environment](#)
- [Infrastructure Deployment](#)
- [Deployment Platform](#)
- [Operational Environment](#)
- [Operational Role](#)
- [Distributed Environment](#)
- [Classified Environment](#)
- [Unclassified Environment](#)
- [Concurrent Operation](#)
- [Centralized Management](#)

Notes for Editors

The individual requirement pages should retain the stable identifiers `OR-001` through `OR-005`.

The source statements should preserve the wording from the controlling System Requirements Specification.

Normalized statements should replace weak verbs such as **support** with direct, testable behavior.

Incoming traceability should use the wiki Backlinks function rather than a manually maintained list.

Individual requirement links should omit a trailing `:start` when the requirement record is a leaf page.

Do not rename requirement pages after external citation unless a redirect or move plan is in place.

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