

OR-003c — Security Domain Resource Enforcement

[Go to OR-003 — Classified and Unclassified Environments](#)

Statement

[Crucible](#) SHALL prevent an operation from accessing a resource not authorized for the operation's governing [Security Domain](#).

Derived From

This requirement derives from:

- [OR-003 — Classified and Unclassified Environments](#)
- Crucible System Requirements Specification, Version 1.1 Draft, Operational Requirements, OR-003

The Original Requirement states:

The system SHALL support classified and unclassified deployment environments.[\[C1\]](#)

OR-003c isolates the obligation to prevent a Crucible operation from accessing a resource outside the authorization boundary of its governing Security Domain.

Rationale

A [Classified Environment](#) or [Unclassified Environment](#) can contain resources governed by different [Security Domains](#).

Execution within an authorized environment does not by itself authorize access to every resource within that environment.

OR-003c prevents a Crucible operation from crossing the resource boundary established for its governing Security Domain.

The responsible authority establishes the Security Domain and identifies its authorized resources. Crucible enforces the established authorization.

Applies To

This requirement applies to:

- [Crucible](#)
- Crucible operations
- [Security Domains](#)
- Resources accessed by Crucible operations
- [Classified Environments](#)
- [Unclassified Environments](#)

Verification

Verification confirms that:

1. Each tested Crucible operation identifies its governing [Security Domain](#)
2. The governing Security Domain identifies the resources authorized for the tested operation
3. [Crucible](#) permits the tested operation to access a resource authorized for the governing Security Domain
4. Crucible prevents the tested operation from accessing a resource not authorized for the governing Security Domain
5. Crucible records each resource-access denial caused by a Security Domain restriction
6. Each denial record identifies the operation, governing Security Domain, requested resource, and denial result

Referenced By

The following pages reference this requirement:

- [3.3 Security Domains and Transfer Boundaries](#)
- [4.1 Human Actors](#)
- [4.3 External Systems](#)
- [Annex D: Requirements Traceability](#)

Delivery Phase

Implemented and Verified.

Implementation Status

☐ Assess whether the current Crucible implementation prevents each operation from accessing resources not authorized for its governing Security Domain.

Requirement Status

- ☐ Review and approve OR-003c as a leaf requirement derived from OR-003.
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Issues

- ☐ Identify the authority responsible for establishing each Security Domain used by Crucible.
 - ☐ Define how each Crucible operation identifies its governing Security Domain.
 - ☐ Define how each Security Domain identifies its authorized resources.
 - ☐ Define the behavior required when an operation does not identify a governing Security Domain.
 - ☐ Define the behavior required when a requested resource does not identify an associated Security Domain.
 - ☐ Define the record required when Crucible denies resource access because of a Security Domain restriction.
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Notes for Editors

This requirement page should retain the stable requirement identifier OR-003c.

This page is a leaf requirement page and omits a trailing :start from its namespace.

OR-003c requires enforcement of an established Security Domain resource boundary. It does not require Crucible to establish, authorize, or define a Security Domain.

The responsible authority establishes:

- The Security Domain identifier
- The Security Domain boundary
- The governing security policy
- The resources authorized within the Security Domain

Changes to the Statement should preserve:

- [Crucible](#) as the responsible actor
- Prevention as the required behavior
- A Crucible operation as the subject of enforcement
- A resource as the controlled object
- The governing [Security Domain](#) as the source of authorization

To reference this requirement Statement from another wiki page, insert:

{{section>dido:02-crusible:99-annexes:annex-c-requirements:02-operational-requirements:or-003:or-003c#Statement&noheader&nofooter&noeditbtn}}

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