

MO-004c — Authorized Resource Use

[Go to MO-004 — Connected and Disconnected Operations](#)

Statement

[Crucible](#) SHALL access only [Authorized Resources](#) for the identified operational environment.

Derived From

This requirement derives from:

- [MO-004 — Connected and Disconnected Operations](#)

The Original Requirement states:

The system SHALL support both connected and disconnected operational environments.[\[C1\]](#)

MO-004c preserves the constraint that [Crucible](#) operates within the resource-authorization boundary established for the identified operational environment.

The separate requirements derived from MO-004 address:

- [MO-004a — Connected Environment Operations](#)
- [MO-004b — Disconnected Environment Operations](#)
- [MO-004d — Disconnected Resource Availability](#)

Rationale

A resource can be available within an operational environment without being authorized for use.

Examples include:

- An unapproved repository
- An unapproved package
- An unapproved container registry
- An unapproved network service
- An unapproved external endpoint
- An imported Artifact that has not completed admission checks
- A resource whose authorization has expired
- A resource whose authorization has been revoked
- A resource authorized for a different operational environment
- A resource authorized for a different Operational Lifecycle activity

An [Authorized Resource](#) has an identified authorization for the operational environment and intended

use.

Restricting Crucible to Authorized Resources supports:

- Enforcement of environment boundaries
- Supply-chain control
- Prevention of unapproved dependency use
- Prevention of unauthorized external communication
- Configuration control
- Security control enforcement
- Compliance evaluation
- [Provenance](#)
- [Traceability](#)
- Generation of auditable [Evidence](#)

This requirement does not require every Authorized Resource to be available within the operational environment.

This requirement does not identify the resources required for execution in a Disconnected Environment. MO-004b addresses disconnected execution, and MO-004d addresses resource availability.

Applies To

This requirement applies to:

- [Crucible](#)
- [Authorized Resources](#)
- Unauthorized resources
- [Connected Environments](#)
- [Disconnected Environments](#)
- [Air-Gapped Environments](#)
- [Operational Lifecycle](#) activities
- [Controlled Inputs](#)
- [Artifacts](#)
- Artifact repositories
- Package repositories
- Image registries
- Network services
- External endpoints
- Imported dependencies
- Transfer Bundles
- Attached storage
- Runtime services
- [Evidence](#)
- [Provenance](#)
- [Traceability](#)

Verification

Verification confirms that:

1. The operational environment is identified
2. The Authorized Resources for the identified operational environment are identified
3. Each resource accessed by [Crucible](#) has a valid authorization for the identified operational environment
4. Each resource authorization permits the intended use
5. Crucible does not access a resource absent from the Authorized Resource set
6. Crucible does not access a resource whose authorization has expired or been revoked
7. Crucible does not access a resource authorized only for another operational environment
8. Each attempted access to an unauthorized resource is denied
9. Each attempted unauthorized resource access is recorded
10. The verification record preserves [Traceability](#) among the operational environment, Authorized Resource set, accessed resources, authorization records, access decisions, and recorded results

Referenced By

The following pages reference this requirement:

- [3.1 Connectivity Conditions](#)
- [4.3 External Systems](#)
- [MO-004a — Connected Environment Operations](#)
- [MO-004b — Disconnected Environment Operations](#)
- [MO-004d — Disconnected Resource Availability](#)
- [Annex D: Requirements Traceability](#)

Delivery Phase

Implemented and Verified

Implementation Status

☐ Assess whether the current Crucible implementation accesses only Authorized Resources for the identified operational environment.

Requirement Status

☐ Review and accept MO-004c as a proposed derived requirement created from the evaluation and decomposition of MO-004 in the Crucible System Requirements Specification, Version 1.1 Draft.

Issues

The following unresolved issues affect this requirement:

- ☐ Identify the authority that authorizes resources for each operational environment.
 - ☐ Define the authorization record required for each Authorized Resource.
 - ☐ Define how authorization scope, expiration, revocation, and intended use affect resource access.
 - ☐ Define the behavior required when Crucible encounters or attempts to access an unauthorized resource.
 - ☐ Define when an imported resource becomes authorized for use within an operational environment.
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Notes for Editors

This requirement page should retain the stable requirement identifier **MO-004c**.

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

The parent **MO-004** page is a non-leaf page and retains a trailing `:start` in its namespace.

Changes to the Statement should preserve:

- **Crucible** as the responsible actor
- **Authorized Resources** as the permitted resources
- The identified operational environment as the authorization context
- Prohibition of access to resources outside the Authorized Resource set

The authorization record for each Authorized Resource should identify:

- The resource identifier
- The resource type
- The operational environment
- The permitted use
- The authorizing authority
- The authorization date
- The authorization status
- The authorization expiration condition
- Any restrictions

Material changes should receive review and should update the verification criteria, source records, and Issues section.

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

```
{{section>dido:02-crusible:99-annexes:annex-c-requirements:01-mission-objectives:mo-004:mo-004c#Statement&noheader&nofooter&noeditbtn}}
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