

MO-003a — Cross-Platform Deployment

[Go to MO-003 — Cloud-Agnostic Deployment](#)

Statement

[Crucible](#) SHALL deploy an [Infrastructure Environment](#) to two or more supported [Deployment Platforms](#).

Derived From

This requirement derives from:

- [MO-003 — Cloud-Agnostic Deployment](#)

The Original Requirement states:

The system SHALL provide cloud-agnostic deployment capabilities.[\[C2\]](#)

MO-003a preserves the portion of the Original Requirement that requires [Crucible](#) to deploy Infrastructure Environments across multiple Deployment Platforms.

The separate requirements derived from MO-003 address:

- [MO-003b — Provider-Independent Crucible Description](#)
- [MO-003c — Provider-Independent Infrastructure Baseline](#)
- [MO-003d — Limitation of Provider-Specific Dependencies](#)

Rationale

[Cloud Agnosticism](#) requires [Crucible](#) to operate across more than one Deployment Platform.

Deployment to two or more supported Deployment Platforms provides the minimum observable basis for evaluating cross-platform deployment.

A supported Deployment Platform requires an identified and approved mechanism through which [Crucible](#) performs the deployment.

Cross-platform deployment does not alone establish complete Cloud Agnosticism. The other requirements derived from MO-003 address provider-independent deployment information and limitation of provider-specific dependencies.

Applies To

This requirement applies to:

- [Crucible](#)
- [Cloud Agnosticism](#)
- [Infrastructure Environments](#)
- [Infrastructure Deployments](#)
- [Deployment Platforms](#)
- [Supported Deployment Platforms](#)
- [Provider Contracts](#)
- [Provider Implementations](#)
- [Platform Specific Parameters](#)
- [Controlled Inputs](#)
- [Connected Environments](#)
- [Disconnected Environments](#)
- [Air-Gapped Environments](#)
- [Evidence](#)
- [Provenance](#)
- [Traceability](#)

Verification

Verification confirms that:

1. Two or more supported [Deployment Platforms](#) are identified
2. The support criteria for each Deployment Platform are identified
3. [Crucible](#) performs an [Infrastructure Deployment](#) to each identified Deployment Platform
4. Each Infrastructure Deployment creates an [Infrastructure Environment](#)
5. Each deployment result identifies the target Deployment Platform
6. Each deployment result identifies the [Provider Implementation](#) used for the Deployment Platform
7. Each resulting Infrastructure Environment satisfies the deployment acceptance criteria established for the target Deployment Platform
8. The verification record preserves [Traceability](#) among the Controlled Inputs, target Deployment Platform, Provider Implementation, Infrastructure Deployment, and resulting Infrastructure Environment

Referenced By

The following pages reference this requirement:

- [3.2 Deployment Environments](#)
- [MO-003b — Provider-Independent Crucible Description](#)
- [MO-003c — Provider-Independent Infrastructure Baseline](#)
- [MO-003d — Limitation of Provider-Specific Dependencies](#)

- [Annex D: Requirements Traceability](#)

Delivery Phase

Implemented and Verified

Implementation Status

☐ Assess whether the current Crucible implementation deploys an Infrastructure Environment to two or more supported Deployment Platforms.

Requirement Status

☐ Review and accept MO-003a as a proposed derived requirement created from the evaluation and decomposition of MO-003 in the Crucible System Requirements Specification, Version 1.1 Draft.

Issues

The following unresolved issues affect this requirement:

- ☐ Identify the Deployment Platforms that Crucible supports.
 - ☐ Define the criteria used to determine that a Deployment Platform is supported.
 - ☐ Confirm that deployment to two supported Deployment Platforms provides sufficient minimum evidence of cross-platform deployment.
 - ☐ Identify the deployment acceptance criteria for each supported Deployment Platform.
 - ☐ Identify the controlling source that approves the Provider Contract and Provider Implementation used for each supported Deployment Platform.
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Notes for Editors

This requirement page should retain the stable requirement identifier MO-003a.

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

The parent MO-003 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
- Deployment of an [Infrastructure Environment](#) as the required outcome
- Deployment to two or more supported [Deployment Platforms](#) as the cross-platform obligation

The criteria for a supported Deployment Platform should identify:

- The Deployment Platform
- The approved [Provider Contract](#)
- The approved [Provider Implementation](#)
- The supported [Platform Specific Parameters](#)
- The deployment acceptance criteria
- The required [Evidence](#)

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-003:mo-003a#Statement&noheader&nofooter&noeditbtn}}
```

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