

MO-003b — Provider-Independent Crucible Description

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

Statement

[Crucible](#) SHALL use the same identified version of the provider-independent [Crucible Description](#) for each selected [Deployment Platform](#).

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-003b preserves the portion of the Original Requirement that requires common provider-independent deployment intent across the selected Deployment Platforms.

The separate requirements derived from MO-003 address:

- [MO-003a — Cross-Platform Deployment](#)
- [MO-003c — Provider-Independent Infrastructure Baseline](#)
- [MO-003d — Limitation of Provider-Specific Dependencies](#)

Rationale

A provider-independent [Crucible Description](#) allows the same deployment intent to apply across multiple Deployment Platforms.

Using the same identified version prevents a change of Deployment Platform from implicitly changing the provider-independent deployment intent.

The Crucible Description should express the required deployment without embedding the proprietary interfaces, services, data formats, software development kits, or operational mechanisms of a particular Cloud Provider.

Platform-specific information remains separate from the provider-independent Crucible Description. A [Provider Implementation](#) translates the provider-independent deployment intent into mechanisms supported by the selected Deployment Platform.

Using the same identified version supports:

- Consistent deployment intent
- Controlled comparison of deployment results
- Change control
- Detection of provider-specific information within provider-independent content
- Reuse across supported Deployment Platforms
- [Provenance](#)
- [Traceability](#)

This requirement does not require use of the same Infrastructure Baseline. MO-003c addresses that outcome.

Applies To

This requirement applies to:

- [Crucible](#)
- [Cloud Agnosticism](#)
- [Crucible Descriptions](#)
- Crucible Description identifiers
- Crucible Description versions
- [Platform Independent Information](#)
- [Platform Specific Information](#)
- [Platform Specific Parameters](#)
- [Deployment Platforms](#)
- [Provider Contracts](#)
- [Provider Implementations](#)
- [Infrastructure Deployments](#)
- [Artifacts](#)
- [Evidence](#)
- [Provenance](#)
- [Traceability](#)

Verification

Verification confirms that:

1. Two or more selected [Deployment Platforms](#) are identified
2. The provider-independent [Crucible Description](#) is identified
3. Each deployment uses a Crucible Description with the same identifier
4. Each deployment uses the same identified version of the Crucible Description
5. The Crucible Description contains provider-independent deployment intent
6. Changing the selected Deployment Platform does not require modification of the identified Crucible Description version
7. [Platform Specific Information](#) remains separate from the provider-independent Crucible Description

8. Each deployment record identifies the Crucible Description identifier and version used for the selected Deployment Platform
9. The verification record preserves [Traceability](#) among the Crucible Description, selected Deployment Platform, Provider Implementation, platform-specific information, and deployment result

Referenced By

The following pages reference this requirement:

- [3.2 Deployment Environments](#)
- [MO-003a — Cross-Platform Deployment](#)
- [MO-003c — Provider-Independent Infrastructure Baseline](#)
- [MO-003d — Limitation of Provider-Specific Dependencies](#)
- [Annex D: Requirements Traceability](#)

Delivery Phase

- ☐ Determine the Delivery Phase for MO-003b.

Implementation Status

- ☐ Assess whether deployments to the selected Deployment Platforms use the same identified version of the provider-independent Crucible Description.

Requirement Status

- ☐ Review and accept MO-003b 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:

- ☐ Define the provider-independent information that the Crucible Description must contain.
- ☐ Define the provider-specific information that must remain separate from the Crucible Description.
- ☐ Identify the controlling source that defines the boundary between provider-independent and provider-specific information.

- ☐ Determine whether changing the selected Deployment Platform may require any controlled transformation of the Crucible Description without creating a new Crucible Description version.
- ☐ Define the identifier and versioning rules used to determine that each deployment uses the same Crucible Description.

Notes for Editors

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

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
- The provider-independent [Crucible Description](#) as the common source of deployment intent
- Use of the same identified Crucible Description version across the selected Deployment Platforms
- Separation of provider-independent and provider-specific information

The unresolved boundary between provider-independent and provider-specific information should remain recorded in the Issues section until a controlling source defines it.

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-003b#Statement&noheader&nofooter&noeditbtn}}
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