

MO-003 — Cloud-Agnostic Deployment

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Original Requirement

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

Assessment of Original Requirement

The Original Requirement preserves the approved mission objective but does not express independently testable normative statements.

The following Specification Discipline and Authoring findings apply:

- **The system** does not use the defined system name [Crucible](#)
- **Provide** is a weak verb that does not identify an observable behavior performed by Crucible
- **Cloud-agnostic** refers to [Cloud Agnosticism](#), but the Original Requirement does not identify the dependencies that Crucible must limit
- **Deployment capabilities** does not identify the deployable subject, deployment inputs, target [Deployment Platforms](#), or required deployment outcome

[Cloud Agnosticism](#) limits dependence on the proprietary interfaces, services, data formats, software development kits, and operational mechanisms of a particular Cloud Provider.

A cloud-agnostic architecture expresses common deployment capabilities through provider-independent concepts, contracts, and interfaces. Provider-specific implementations translate those capabilities into mechanisms supported by each target Deployment Platform.

The Original Requirement does not identify:

- The Deployment Platforms across which Crucible must operate
- The minimum number of Deployment Platforms required to demonstrate Cloud Agnosticism
- The deployable subject
- The provider-independent deployment information
- The provider-specific dependencies that Crucible must limit
- The boundary between provider-independent Crucible behavior and provider-specific implementation behavior
- Whether the same [Crucible Description](#) applies across the target Deployment Platforms
- Whether the same [Infrastructure Baseline](#) applies across the target Deployment Platforms
- The permitted scope of provider-specific variation

The Original Requirement therefore requires:

- Replacement of **the system** with the defined system name [Crucible](#)
- Replacement of **provide** with observable Crucible behavior
- Identification of the target Deployment Platforms
- Identification of the provider-independent deployment information

- Identification of the proprietary dependencies that Crucible must limit
- Definition of the boundary between provider-independent behavior and provider-specific implementation
- Definition of the permitted provider-specific variation
- Separation of the independently testable cloud-agnostic deployment outcomes
- Confirmation that the derived requirements collectively preserve the complete intent of MO-003

The decomposition preserves MO-003 as the stable parent requirement identifier. Each proposed replacement requirement receives a lettered identifier and a separate leaf requirement page.

Proposed Statements

The Original Requirement is decomposed into the following proposed replacement requirements:

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

Requirement Status

- ☐ Review and approve the proposed decomposition of MO-003 into independently testable cloud-agnostic deployment requirements.
- ☐ Determine whether MO-003a through MO-003d collectively supersede MO-003.
- ☐ If MO-003a through MO-003d are accepted as the complete replacement for MO-003, mark MO-003 as superseded and preserve this page as the parent Traceability record.

Issues

The following unresolved issues affect the decomposition of MO-003:

- ☐ Identify the target Deployment Platforms and the minimum number of platforms required to demonstrate Cloud Agnosticism.
- ☐ Identify the deployable subject and the deployment outcome required on each target Deployment Platform.
- ☐ Define the provider-independent deployment information that Crucible uses across target Deployment Platforms.
- ☐ Determine whether the same Crucible Description must apply across all target Deployment Platforms.

- ☐ Determine whether the same Infrastructure Baseline must apply across all target Deployment Platforms.
 - ☐ Identify the proprietary interfaces, services, data formats, software development kits, and operational mechanisms from which Crucible must limit dependence.
 - ☐ Define the permitted scope of provider-specific implementation behavior and variation.
 - ☐ Determine whether MO-003a through MO-003d provide complete coverage of the approved intent of MO-003.
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Notes for Editors

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

This page is a non-leaf requirement page and retains a trailing :start in its namespace.

The child requirements are leaf requirement pages and omit a trailing :start from their namespaces.

The explicit child-page links should remain while the proposed decomposition is being developed. After the child pages have been created and finalized, the explicit links may be removed because the indexmenu displays the child requirement pages contained within the MO-003 namespace.

This page preserves:

- The Original Requirement
- The assessment of the Original Requirement
- The reason for decomposition
- [Traceability](#) to the proposed replacement requirements
- The unresolved cross-cutting issues affecting the decomposition
- The supersession decision

The derived requirements should distinguish provider-independent Crucible behavior from provider-specific implementation behavior.

Cloud Agnosticism does not prohibit every provider-specific mechanism. Provider-specific implementations may translate provider-independent deployment information into mechanisms supported by a target Deployment Platform, provided that those mechanisms do not become required elements of the provider-independent Crucible model.

The Original Requirement should not be marked as superseded until the requirement owner:

- Approves the proposed decomposition
- Approves the child requirements
- Identifies the target Deployment Platforms
- Defines the permitted provider-specific variation
- Confirms that the child requirements collectively preserve the complete approved intent of MO-003
- Confirms that no additional child requirements are required

After supersession, this page should remain as the parent Traceability record and should continue to preserve the Original Requirement and its assessment.

Material changes to the decomposition should update the child requirements, Requirement Status, Issues, and Traceability records.

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