

MO-006b — Infrastructure-Independent Testing

[Go to MO-006 — Application-Independent and Infrastructure-Independent Testing](#)

Statement

DIDO-TE SHALL preserve [Infrastructure Independence](#) when testing across different [Infrastructures](#).

Derived From

MO-006b derives from [MO-006 — Application-Independent and Infrastructure-Independent Testing](#).

MO-006b specifies the infrastructure-independent portion of MO-006.

Rationale

Infrastructure Independence separates the governing test from the design, implementation, provider, platform, and deployment choices associated with particular Infrastructure.

This separation supports consistent evaluation across different Infrastructure without allowing infrastructure-specific assumptions to change the testing intent or favour a particular Infrastructure implementation, platform, or provider.

Infrastructure-specific adaptations remain appropriate when execution requires them. Such adaptations preserve the governing:

- [Test Definition](#)
- Evaluated characteristics
- Evaluation method
- [Acceptance Criteria](#)
- Required outcomes
- [Evidence](#) obligations
- [Traceability](#)

Infrastructure Independence does not imply infrastructure-neutral results. Infrastructure characteristics affect observed results, including:

- [Performance Efficiency](#)
- [Reliability](#)
- [Operational Stability](#)
- [Resource Consumption](#)
- [Storage Consumption](#)

- [Energy Consumption](#)
- [Cost](#)
- [Scalability](#)

Infrastructure-independent testing identifies and records relevant Infrastructure characteristics so the evaluation distinguishes Infrastructure effects from changes to the governing test.

Applies To

MO-006b applies to:

- DIDO-TE
- Test Definitions
- Infrastructure
- Infrastructure-specific test adaptations
- Evaluation methods
- Acceptance Criteria
- Evidence
- Traceability

Verification

Verification confirms that:

1. DIDO-TE applies the governing Test Definition across different Infrastructure
2. The governing testing intent does not depend on the design, implementation, provider, platform, or selection of particular Infrastructure
3. The evaluated characteristics remain consistent across the tested Infrastructure
4. The evaluation method remains consistent across the tested Infrastructure
5. The Acceptance Criteria remain consistent across the tested Infrastructure
6. Infrastructure-specific adaptations preserve the Test Definition, evaluated characteristics, evaluation method, Acceptance Criteria, required outcomes, Evidence obligations, and Traceability
7. DIDO-TE identifies and records each Infrastructure-specific adaptation
8. DIDO-TE identifies and records the Infrastructure characteristics relevant to interpreting the Test Results
9. The Evidence distinguishes Infrastructure effects from changes to the governing test

Referenced By

The following pages reference this requirement:

- [MO-006 — Application-Independent and Infrastructure-Independent Testing](#)

Delivery Phase

- ☐ Assign the delivery phase for MO-006b.

Implementation Status

- ☐ Record the implementation status of MO-006b after reviewing the implementation plan.

Requirement Status

- ☐ The proposed derived requirement requires review and acceptance.
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Issues

- ☐ Confirm the controlling source statement and citation from which MO-006b derives.
 - ☐ Confirm which test elements remain invariant across Infrastructure.
 - ☐ Define the permitted Infrastructure-specific adaptations and their approval requirements.
 - ☐ Determine which Infrastructure characteristics DIDO-TE records for each category of test.
 - ☐ Determine how verification distinguishes an Infrastructure-specific adaptation from a change to the governing test.
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Notes for Editors

Use the following code to reference the Statement section from another wiki page:

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{{section>dido:03-dido-te:99-annexes:annex-c-requirements:01-mission-objectives:mo-006:mo-006b#Statement&noheader&nofooter&noeditbtn}}
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