

MO-004 — Connected and Disconnected Operations

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Original Requirement

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

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](#)
- **Support** is a weak verb that does not identify the behavior Crucible performs
- **Operational environments** does not identify the activities Crucible performs, the inputs used, the outputs produced, or the required completion conditions
- The Original Requirement combines operation in [Connected Environments](#) and [Disconnected Environments](#) within one normative statement
- Connected Environment operation and Disconnected Environment operation can pass or fail independently
- The Original Requirement does not identify which [Operational Lifecycle](#) activities apply within each environment
- The Original Requirement does not identify how the applicable Operational Lifecycle activities are selected
- The Original Requirement does not distinguish resource availability from resource authorization
- The Original Requirement does not prohibit use of resources that are not authorized for the operational environment
- The Original Requirement does not prohibit dependence on external network resources unavailable within a Disconnected Environment
- The Original Requirement does not identify whether resources imported through an approved transfer process become available within the Disconnected Environment
- The Original Requirement does not provide independently identifiable statements for verification and traceability

The previously normalized Statement also combined:

- Execution in Connected Environments
- Execution in Disconnected Environments
- Use of only [Authorized Resources](#)
- Dependence on resources available within each environment

These obligations can pass or fail independently.

The Original Requirement therefore requires decomposition into independently identifiable normative requirements.

The decomposition preserves MO-004 as the stable parent requirement identifier. Each replacement requirement receives a lettered identifier and a separate requirement page.

Proposed Statements

The Original Requirement is replaced by the following independently identifiable normative requirements:

- [MO-004a — Connected Environment Operation](#)
 - [MO-004b — Disconnected Environment Operation](#)
 - [MO-004c — Unauthorized Resource Prohibition](#)
 - [MO-004d — External Resource Independence](#)
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- [MO-004a — Connected Environment Operations](#)
 - [MO-004b — Disconnected Environment Operations](#)
 - [MO-004c — Authorized Resource Use](#)
 - [MO-004d — Disconnected Resource Availability](#)

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