

MO-006 — Infrastructure Lifecycle Management

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Original Requirement

The system SHALL support infrastructure lifecycle management from initial deployment through retirement.[\[C1\]](#)

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
- **Infrastructure** does not identify the lifecycle subject as an [Infrastructure Environment](#)
- **Infrastructure lifecycle management** combines multiple independently verifiable behaviors
- The Original Requirement does not require association of an Infrastructure Environment with an identified [Operational Lifecycle](#)
- The Original Requirement does not identify the Operational Lifecycle revision applicable to the Infrastructure Environment
- **Initial deployment** embeds a separate lifecycle-initiation obligation
- **Through retirement** embeds a separate terminal lifecycle obligation
- The Original Requirement does not identify the current lifecycle state of the Infrastructure Environment
- The Original Requirement does not identify the lifecycle transitions allocated to Crucible
- The Original Requirement does not identify the conditions that permit a lifecycle transition
- The Original Requirement does not identify the conditions that permit [Retirement](#)
- The Original Requirement combines lifecycle assignment, lifecycle initiation, lifecycle-state determination, lifecycle-transition execution, and Retirement within one normative statement
- These obligations can pass or fail independently
- The Original Requirement does not provide independently identifiable statements for verification and traceability

The previously normalized Statement also combined:

- Management of each Infrastructure Environment
- Association with an applicable Operational Lifecycle
- Lifecycle initiation at the initial [Infrastructure Deployment](#)
- Management of intermediate lifecycle states
- Execution or coordination of lifecycle transitions
- Continuation of lifecycle management through Retirement

These obligations can pass or fail independently. The term **throughout** also does not identify whether the requirement applies continuously, during each lifecycle state, during each transition, or whenever a lifecycle activity occurs. The current page consequently places several substantive obligations within its Verification section rather than expressing them as atomic Statements.
:contentReference[oaicite:0]{index=0}

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

The decomposition preserves MO-006 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-006a — Operational Lifecycle Assignment](#)
 - [MO-006b — Operational Lifecycle Initiation](#)
 - [MO-006c — Current Lifecycle State Determination](#)
 - [MO-006d — Lifecycle Transition Execution](#)
 - [MO-006e — Infrastructure Environment Retirement](#)
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- [MO-006a — Operational Lifecycle Association](#)
 - [MO-006b — Infrastructure Lifecycle Initiation](#)
 - [MO-006c — Infrastructure Lifecycle State Recording](#)
 - [MO-006d — Infrastructure Lifecycle Transition Execution](#)
 - [MO-006e — Infrastructure Environment Retirement](#)

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