

MO-002

[Go to Mission Objectives](#)

Statement

Crucible SHALL achieve a [Platform Deployment](#) duration that is less than the approved [Deployment Baseline](#) and within the applicable acceptance criteria.

Source Statement

Crucible SHALL reduce platform deployment timelines from months to days or hours through automation.

Source

Crucible System Requirements Specification, Version 1.1 Draft, Mission Objectives, MO-002.

Assessment

The source statement expresses the approved mission objective but does not provide the information required for deterministic verification.

The following Specification Discipline and Authoring findings apply:

- **Platform deployment timelines** does not identify the beginning and end of the measured activity
- **From months** does not define the approved baseline duration, baseline process, environment, scope, or measurement method
- **To days or hours** provides alternative and unbounded target ranges rather than a single applicable acceptance criterion
- **Through automation** prescribes an implementation approach rather than the required outcome
- The source statement does not identify which [Platform Deployment](#) activities contribute to the measured duration
- The source statement does not identify whether image construction, compliance assessment, dependency capture, infrastructure deployment, provisioning, and post deployment validation occur within the measured duration

The normalized Statement expresses the required outcome as a measurable reduction relative to an approved [Deployment Baseline](#) and applicable acceptance criteria.

Rationale

Organizations often require weeks or months to construct, configure, secure, validate, and deploy a platform environment through manual or partially automated processes.

[Crucible](#) reduces [Platform Deployment](#) duration by coordinating:

- [Crucible Descriptions](#)
- Reusable [Baselines](#)
- [Baseline Composition](#)
- [Image Layers](#)
- [Infrastructure Baselines](#)
- [Machine Image](#) construction
- [Infrastructure Deployment](#)
- [Provisioning](#)
- Compliance assessment
- Deployment validation
- [CI/CD Pipeline](#) execution

Controlled execution replaces repeated manual activity and supports comparison against an approved [Deployment Baseline](#).

Applies To

This requirement applies to:

- [Crucible](#)
- [Crucible Descriptions](#)
- [Baseline Composition](#)
- [Baselines](#)
- [Image Layers](#)
- [Infrastructure Baselines](#)
- [Machine Image](#) construction
- [Infrastructure Deployment](#)
- [Platform Deployment](#)
- [Provisioning](#)
- Compliance assessment
- Deployment validation
- [Connected Environments](#)
- [Disconnected Environments](#)
- [Air-Gapped Environments](#)
- [CI/CD Pipelines](#)
- [Operational Lifecycle](#)

Verification

1. Verification SHALL confirm that the approved [Deployment Baseline](#) identifies the baseline process, environment scope, starting event, ending event, and measured duration
2. Verification SHALL confirm that the applicable acceptance criteria identify the maximum permitted [Platform Deployment](#) duration
3. Verification SHALL confirm that [Crucible](#) performs the applicable [Platform Deployment](#) activities from controlled inputs
4. Verification SHALL confirm that the measured [Platform Deployment](#) duration is less than the approved [Deployment Baseline](#)
5. Verification SHALL confirm that the measured [Platform Deployment](#) duration satisfies the applicable acceptance criteria
6. Verification SHALL confirm that repeated tests use equivalent environment scope, controlled inputs, measurement boundaries, and acceptance criteria
7. Verification SHALL confirm that failed or incomplete deployments are excluded from successful deployment duration results and recorded separately

Verification may include:

- Baseline process timing
- [Baseline Composition](#) timing
- [Machine Image](#) build timing
- [Infrastructure Deployment](#) timing
- [Provisioning](#) timing
- Compliance assessment timing
- Deployment validation timing
- End-to-end [CI/CD Pipeline](#) timing
- Connected environment demonstrations
- Disconnected environment demonstrations
- [Air-Gapped Environment](#) demonstrations
- Repeated deployment comparisons

The verification record SHALL identify:

1. The approved [Deployment Baseline](#)
2. The baseline measurement method
3. The baseline environment scope
4. The baseline starting event
5. The baseline ending event
6. The baseline duration
7. The applicable acceptance criteria
8. The controlled inputs
9. The measured [Platform Deployment](#) activities
10. The measured starting event
11. The measured ending event
12. The measured duration
13. The difference between the baseline duration and measured duration
14. The verification result
15. The supporting [Evidence](#)

Traceability

This requirement supports:

- [FR-CFG-001 through FR-CFG-005](#)
- [FR-IMG-001 through FR-IMG-006](#)
- [FR-DEP-001 through FR-DEP-007](#)
- [FR-COMP-001 through FR-COMP-010](#)
- [FR-DSO-001 through FR-DSO-006](#)
- [FR-BAS-001 through FR-BAS-004](#)
- [PERF-001 through PERF-005](#)
- [KVP-001 — Reduce environment deployment timelines](#)
- [KVP-002 — Reduce infrastructure engineering effort](#)

KVP identifies a Key Value Proposition requirement.

This requirement also relates to:

- [5. Descriptions, Composition, and Baselines](#)
- [6. Machine Images and Image Layers](#)
- [7. Infrastructure and Deployment](#)
- [9. Compliance and Security](#)
- [10. Reproducibility, Provenance, and Traceability](#)

ConOps Relationship

The Crucible Concept of Operations describes Phase 1 as a command-line utility invoked through [CI/CD Pipeline](#) steps.

The Phase 1 workflow:

- Composes [Image Layers](#) and [Infrastructure Baselines](#)
- Builds and hardens [Machine Images](#)
- Captures dependencies and [Compliance Findings](#)
- Performs [Infrastructure Deployment](#)
- Performs [Provisioning](#)
- Executes deployment validation
- Produces supporting [Evidence](#)

The coordinated workflow reduces manual handoffs and repeated engineering activity. The measured reduction depends on an approved [Deployment Baseline](#) and acceptance criteria for the applicable environment.

Delivery Phase

Phase 1 and subsequent phases

Implementation Status

Not Assessed

Implementation status requires measurement against an approved [Deployment Baseline](#) and applicable acceptance criteria.

Requirement Status

Draft

The source System Requirements Specification identifies Version 1.1 as a draft.

Notes for Editors

This requirement page should retain the stable requirement identifier `MO-002`.

Changes to the Statement SHALL preserve the approved intent of the source requirement.

Material changes should receive review and should update the related Traceability, verification criteria, acceptance criteria, and source records.

The Source Statement should preserve the original wording from the controlling System Requirements Specification.

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