

FR-UI-002 — Command-Line Interface

[Go to C.3.11 Crucible Interfaces](#)

Statement

[Crucible](#) SHALL provide a [Command-Line Interface \(CLI\)](#) for invoking Crucible operations.

Derived From

This requirement derives from:

- Crucible System Requirements Specification, Version 1.1 Draft, Functional Requirements, FR-UI-002

The Original Requirement requires the web-based interface to use the same engine and command-line capabilities as the primary command-line interface.[\[C1\]](#)

FR-UI-002:

- Identifies [Crucible](#) as the required system
- Identifies the primary command-line interface as a [Command-Line Interface \(CLI\)](#)
- Expresses the command-line capability as a direct and independently verifiable requirement
- Separates provision of the Command-Line Interface from shared interface operations
- Separates provision of the Command-Line Interface from provision of the Web-Based User Interface

FR-UI-001 separately governs operations exposed through both interfaces.

FR-UI-003 separately requires the Web-Based User Interface.

Rationale

A [Command-Line Interface \(CLI\)](#) provides a text-based interface through which people and automated processes can invoke Crucible operations.

The Command-Line Interface supports:

- Interactive terminal use
- Shell scripts
- Automated [Workflows](#)
- [CI/CD Pipelines](#)
- Noninteractive execution

Providing a Command-Line Interface allows Crucible operations to participate in repeatable and

automated processes without requiring interaction through a graphical interface.

This requirement establishes a Command-Line Interface without prescribing:

- A particular command shell
- A particular terminal application
- A particular command syntax
- Particular command names
- Particular options or arguments
- A particular output format
- A particular scripting language
- A particular authentication mechanism
- A particular operating system
- A particular internal implementation
- A particular set of Crucible operations

Separate requirements, architecture specifications, interface specifications, security requirements, and command profiles govern those subjects.

Applies To

This requirement applies to:

- [Crucible](#)
- [Command-Line Interface \(CLI\)](#)
- Crucible operations exposed through the Command-Line Interface
- Interactive and noninteractive command-line invocation

Verification

Verification confirms that:

1. [Crucible](#) provides a [Command-Line Interface \(CLI\)](#)
2. A test operator or automated process can invoke an identified Crucible operation through the Command-Line Interface
3. The Command-Line Interface accepts the inputs required by the selected operation
4. Crucible performs the selected operation
5. The Command-Line Interface provides an observable operation result
6. The Command-Line Interface provides an observable completion status

Referenced By

The following pages reference this requirement:

- [9.2 Command-Line Interface](#)
- [C.3.11 Crucible Interfaces](#)

- [Annex D: Requirements Traceability](#)

Implementation Status

Implemented and Verified

Requirement Status

- ☐ Review and approve FR-UI-002 as a leaf requirement.
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Issues

- ☐ Confirm which Crucible operations the Command-Line Interface must expose.
 - ☐ Determine whether separate requirements define command syntax, input conventions, output formats, exit status conventions, and error reporting.
 - ☐ Confirm whether the controlling source requires the Command-Line Interface to remain the primary Crucible interface.
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Notes for Editors

This requirement page retains the stable requirement identifier FR-UI-002.

This page is a leaf requirement page and omits a trailing :start from its namespace.

The Statement uses the following controlling Terms and Definitions entries:

- [Crucible](#)
- [Command-Line Interface \(CLI\)](#)

The Statement addresses provision of a Command-Line Interface for invoking Crucible operations.

FR-UI-001 governs operations exposed through both the Command-Line Interface and the [Web-Based User Interface \(Web UI\)](#).

FR-UI-003 governs provision of the Web-Based User Interface.

The term **invoke** does not require every operation to complete synchronously. An invoked operation can return an immediate result, initiate a longer-running activity, or provide an identifier through which its status and result can be obtained.

Do not add particular commands, syntax, options, arguments, output formats, shells, operating

systems, or operation sets unless the controlling requirement changes through an approved requirements process.

To reference this requirement Statement from another wiki page, insert:

```
{{section>dido:02-crusible:99-annexes:annex-c-requirements:03-functional-requirements:03-11-management-interfaces:fr-ui-002#Statement&noheader&nofooter&noeditbtn}}
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