

FR-AG-003 — Artifact Import Packages

[Go to Crucible Air-Gapped Operations Requirements](#)

Statement

Crucible SHALL import the identified **Artifacts** contained in an authorized Artifact Import Package after verifying the package integrity.

Source Statement

The system shall support artifact import packages.

Source

Crucible System Requirements Specification, Version 1.1 Draft, Functional Requirements, FR-AG-003.

Assessment

The source statement identifies a required package type but does not state the required import behavior.

The following Specification Discipline and Authoring findings apply:

- **The system** does not use the defined system name
- **shall** does not follow the established uppercase normative convention
- **Support** is a weak verb
- **Artifact import packages** does not identify whether Crucible creates, validates, stores, or consumes the package
- The source statement does not identify whether the package must be authorized
- The source statement does not identify whether package integrity must be verified before import
- The source statement does not prescribe a package format, archive technology, storage medium, or integrity mechanism

The normalized Statement:

- Replaces **The system** with **Crucible**
- Replaces **support** with the direct behavior **import**
- Identifies the Artifacts as the imported subjects
- Requires package authorization
- Requires package-integrity verification before import
- Preserves implementation independence

This normalization relies on the established concepts of [Transfer Authorization](#) and [Transfer Bundle Integrity](#).

Artifact Import Package should receive a glossary definition. It may be the destination-environment role of the same transferable package created as an Artifact Export Package rather than a structurally different package type.

Rationale

An Artifact Import Package supplies Artifacts and metadata to a destination environment after controlled transfer.

The import process may:

- Read the package manifest
- Identify the included Artifacts
- Verify package integrity
- Verify Artifact content digests
- Verify Digital Signatures
- Confirm Transfer Authorization
- Reject unauthorized or invalid content
- Place accepted Artifacts into local repositories
- Register Artifact identifiers and revisions
- Preserve provenance and traceability records

A package created as an Artifact Export Package may become an Artifact Import Package when the destination environment receives and processes it.

FR-AG-003 does not independently authorize the imported Artifacts for deployment or operation. Separate approval, promotion, compliance, and deployment requirements govern those decisions.

Applies To

This requirement applies to:

- [Crucible](#)
- Artifact Import Packages
- [Artifacts](#)
- Package manifests
- Artifact identifiers
- Artifact revisions
- Content digests
- Digital signatures
- [Transfer Authorizations](#)
- [Transfer Bundle Integrity](#)
- Local Artifact repositories
- [Disconnected Environments](#)

Verification

1. Verification SHALL confirm that the Artifact Import Package is authorized
2. Verification SHALL confirm that [Crucible](#) verifies the package integrity before importing its contents
3. Verification SHALL confirm that Crucible imports the identified Artifacts contained in a valid authorized package
4. Verification SHALL confirm that Crucible does not import the tested package when authorization or package-integrity verification fails

Verification may include:

- Authorized-package import testing
- Unauthorized-package testing
- Modified-package testing
- Manifest inspection
- Content-digest comparison
- Digital-signature verification
- Local repository inspection
- Import-log inspection

The verification record SHALL identify:

1. The Artifact Import Package
2. The included Artifacts
3. The Transfer Authorization
4. The package-integrity verification result
5. The imported Artifact identifiers
6. The imported Artifact revisions
7. The destination repository
8. The import result
9. The generated [Evidence](#)

Outgoing Traceability

This requirement realizes:

- [MO-004](#)
- [MO-006](#)

This requirement relates to:

- [FR-AG-001 — Disconnected Deployment Operations](#)
- [FR-AG-002 — Artifact Export Packages](#)
- [FR-AG-004 — Baseline Synchronization](#)
- [FR-AG-005 — Deployment Traceability Across Disconnected Environments](#)
- [C.3.10 Dependency Capture and Offline Transfer](#)
- [8. Dependencies and Air Gap Operations](#)

Referenced By

The wiki Backlinks function provides the current list of pages that reference FR-AG-003.

Incoming Traceability should be derived dynamically from backlinks rather than maintained as a duplicate manual list.

ConOps Relationship

The Crucible Concept of Operations describes receipt, integrity verification, and import of transferred Artifacts into a Disconnected Environment.

FR-AG-003 establishes the required import behavior for authorized Artifact packages.

Delivery Phase

Phase 1

Implementation Status

Not Assessed

Requirement Status

Draft

Notes for Editors

This requirement page should retain the stable requirement identifier FR-AG-003.

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

The Statement should remain limited to importing identified Artifacts from an authorized package after package-integrity verification.

Requirements for package creation, physical transfer, Artifact approval, Image Promotion, and deployment should remain separate.

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

```
{{section>dido:02-crusible:99-annexes:annex-c-requirements:03-functional-requirements:03-05-air-gap-operations:fr-ag-003#Statement&noheader&nofooter&noeditbtn}}
```

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