

Annex D: Requirements Traceability

[Go to Crucible](#)

Annex D maps the canonical leaf requirements in [Annex C: Requirements](#) to the Crucible pages that reference them.

Annex C remains the canonical source for requirement titles, Statements, rationale, and verification information. Annex D provides traceability links and coverage information without restating or redefining the requirements.

Requirements Traceability Index

The Requirements Traceability Index lists the canonical leaf requirements alphabetically by title.

The **Requirement Title** column links to the canonical requirement page. The **Referenced By** column identifies the Crucible pages that link to that requirement.

A requirement with no references requires review to determine whether:

- The requirement lacks ConOps coverage
- The requirement belongs outside the ConOps
- The requirement represents a future capability
- The requirement page or backlink is incomplete
- The requirement requires an additional operational page

Requirement Title	Referenced By
MO-005f — Approved Infrastructure Baseline Preservation	• MO-005a — Infrastructure Baseline Artifact Management • MO-005b — Infrastructure Baseline Identification • MO-005c — Infrastructure Baseline Revision Control • MO-005d — Approved Infrastructure Baseline Selection • MO-005e — Infrastructure Baseline Reuse • MO-005g — Infrastructure Deployment Baseline Traceability

Requirement Title	Referenced By
MO-005d — Approved Infrastructure Baseline Selection	• MO-005a — Infrastructure Baseline Artifact Management • MO-005b — Infrastructure Baseline Identification • MO-005c — Infrastructure Baseline Revision Control • MO-005e — Infrastructure Baseline Reuse • MO-005f — Approved Infrastructure Baseline Preservation • MO-005g — Infrastructure Deployment Baseline Traceability
FR-AG-002 — Artifact Export Packages	• 3.3 Security Domains and Transfer Boundaries • 4.1 Human Actors • 4.3 External Systems • 7.4 Import the Transfer Bundle • C.3.5 Air-Gapped Operations
FR-AG-003 — Artifact Import Packages	• 3.3 Security Domains and Transfer Boundaries • 4.1 Human Actors • 4.3 External Systems • 7.4 Import the Transfer Bundle • C.3.5 Air-Gapped Operations
FR-COMP-009c — Authorization to Operate Evidence	• 5.4 Assess Compliance • 5.7 Preserve Evidence and Lifecycle Records • 6.1 Construct and Assess the Environment • 8.4 Generate Supporting Evidence

Requirement Title	Referenced By
MO-004c — Authorized Resource Use	• 3.1 Connectivity Conditions • 4.3 External Systems • MO-004a — Connected Environment Operations • MO-004b — Disconnected Environment Operations • MO-004d — Disconnected Resource Availability
FR-DSO-004 — Automated Build Execution	Plugin Backlinks: Nothing was found.
FR-DSO-005 — Automated Deployment Execution	Plugin Backlinks: Nothing was found.
FR-DSO-006 — Automated Validation Execution	Plugin Backlinks: Nothing was found.
FR-AG-004 — Baseline Synchronization	• C.3.5 Air-Gapped Operations
FR-IMG-002 — Build Container Images	• 5.2 Construct Images • 6.1 Construct and Assess the Environment • 7.6 Rebuild and Deploy
FR-IMG-001 — Build Virtual Machine Images	• 5.2 Construct Images • 6.1 Construct and Assess the Environment • 7.6 Rebuild and Deploy
FR-DEPC-001 — Capture Build Dependencies	• 5.3 Capture and Preserve Dependencies • 7.1 Capture and Preserve Dependencies
FR-DSO-003 — CI/CD Pipeline Integration	Plugin Backlinks: Nothing was found.
OR-003a — Classified Environment Operations	• 3.3 Security Domains and Transfer Boundaries
FR-MC-001 — Cloud Provider Abstraction	• 3.2 Deployment Environments • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment
FR-UI-002 — Command-Line Interface	• 9.2 Command-Line Interface • C.3.11 Crucible Interfaces

Requirement Title	Referenced By
MO-001e — Compliance Baseline Conformance	• MO-001a — Infrastructure Environment Creation • MO-001b — Deployment Duration • MO-001c — Reproducibility • MO-001d — Security Baseline Conformance
FR-COMP-001 — Compliance Baseline Definitions	• 5.4 Assess Compliance • 6.1 Construct and Assess the Environment • 8.1 Select Compliance Criteria and Baselines
FR-COMP-004 — Compliance Evidence Artifacts	• 5.4 Assess Compliance • 6.1 Construct and Assess the Environment • 8.4 Generate Supporting Evidence
FR-COMP-010b — Compliance Finding Association Preservation	• 5.4 Assess Compliance • 5.7 Preserve Evidence and Lifecycle Records • 6.1 Construct and Assess the Environment • 7.7 Preserve Traceability Across Environments • 8.5 Transfer Compliance Findings
FR-COMP-010a — Compliance Finding Transfer Bundle Inclusion	• 5.4 Assess Compliance • 5.7 Preserve Evidence and Lifecycle Records • 6.1 Construct and Assess the Environment • 7.2 Produce the Transfer Bundle • 8.5 Transfer Compliance Findings
OR-001f — Compliance Officer Operations	• OR-001a — Developer Operations • OR-001b — DevSecOps Engineer Operations • OR-001c — Platform Engineer Operations • OR-001d — System Administrator Operations • OR-001e — Security Engineer Operations

Requirement Title	Referenced By
FR-COMP-003 — Compliance Reporting	5.4 Assess Compliance 6.1 Construct and Assess the Environment 8.3 Produce Compliance Reports
FR-COMP-008a — Compliance Scanning Abstraction	5.4 Assess Compliance 6.1 Construct and Assess the Environment 8.2 Perform Compliance Assessments
FR-COMP-002 — Compliance Scanning Tool Integration	5.4 Assess Compliance 6.1 Construct and Assess the Environment 8.2 Perform Compliance Assessments
FR-BAS-002 — Compose Selected Baselines	5.1 Select and Compose Baselines
OR-004a — Concurrent Environment Deployment	OR-004 — Concurrent Environment Deployment and Management
OR-004b — Concurrent Environment Management	OR-004 — Concurrent Environment Deployment and Management
FR-CFG-005 — Configuration Version History	Plugin Backlinks: Nothing was found.
MO-004a — Connected Environment Operations	3.1 Connectivity Conditions - MO-004b — Disconnected Environment Operations - MO-004c — Authorized Resource Use - MO-004d — Disconnected Resource Availability
FR-BAS-001 — Consume Baseline Repositories from a Workspace	5.1 Select and Compose Baselines
OR-003f — Cross-Domain Transfer Control	3.3 Security Domains and Transfer Boundaries 4.1 Human Actors 7.3 Transfer Across the Boundary 7.4 Import the Transfer Bundle

Requirement Title	Referenced By
MO-003a — Cross-Platform Deployment	• 3.2 Deployment Environments • MO-003b — Provider-Independent Crucible Description • MO-003c — Provider-Independent Infrastructure Baseline • MO-003d — Limitation of Provider-Specific Dependencies
FR-COMP-007 — Custom Compliance Frameworks	• 5.4 Assess Compliance • 6.1 Construct and Assess the Environment • 8.1 Select Compliance Criteria and Baselines
FR-CFG-001 — Declarative Infrastructure Configuration	Plugin Backlinks: Nothing was found.
FR-DEPC-005 — Dependency Store Implementation Independence	• 5.3 Capture and Preserve Dependencies • 7.1 Capture and Preserve Dependencies
FR-DEP-004 — Deploy Containerized Workloads	• 3.2 Deployment Environments • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment • 7.6 Rebuild and Deploy
FR-DEP-001 — Deploy Infrastructure Resources	• 3.2 Deployment Environments • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment • 7.6 Rebuild and Deploy
FR-DEP-003 — Deploy Kubernetes Clusters	• 3.2 Deployment Environments • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment • 7.6 Rebuild and Deploy

Requirement Title	Referenced By
FR-DEP-005 — Deploy Platform Services	• 3.2 Deployment Environments • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment • 7.6 Rebuild and Deploy
FR-DEP-002 — Deploy Virtual Machines	• 3.2 Deployment Environments • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment • 7.6 Rebuild and Deploy
OR-002b — Deployment Acceptance Assessment	Plugin Backlinks: Nothing was found.
OR-002c — Deployment Acceptance Record	Plugin Backlinks: Nothing was found.
MO-001b — Deployment Duration	• MO-001a — Infrastructure Environment Creation • MO-001c — Reproducibility • MO-001d — Security Baseline Conformance • MO-001e — Compliance Baseline Conformance
FR-MC-003 — Deployment Portability Across Cloud Providers	• 3.2 Deployment Environments • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment
FR-DEP-006 — Deployment Rollback	Plugin Backlinks: Nothing was found.
OR-002a — Deployment to a Supported Target	• 3.1 Connectivity Conditions • 3.2 Deployment Environments
FR-AG-005 — Deployment Traceability Across Disconnected Environments	• 3.3 Security Domains and Transfer Boundaries • 7.4 Import the Transfer Bundle • C.3.5 Air-Gapped Operations
FR-DEP-007 — Deployment Validation	• 5.6 Validate the Result

Requirement Title	Referenced By
OR-001a — Developer Operations	- OR-001b — DevSecOps Engineer Operations - OR-001c — Platform Engineer Operations - OR-001d — System Administrator Operations - OR-001e — Security Engineer Operations - OR-001f — Compliance Officer Operations
OR-001b — DevSecOps Engineer Operations	- OR-001a — Developer Operations - OR-001c — Platform Engineer Operations - OR-001d — System Administrator Operations - OR-001e — Security Engineer Operations - OR-001f — Compliance Officer Operations
FR-COMP-005 — DISA STIG Compliance Baselines	5.4 Assess Compliance 6.1 Construct and Assess the Environment 8.1 Select Compliance Criteria and Baselines
FR-AG-001 — Disconnected Deployment Operations	C.3.5 Air-Gapped Operations
MO-004b — Disconnected Environment Operations	3.1 Connectivity Conditions - MO-004a — Connected Environment Operations - MO-004c — Authorized Resource Use - MO-004d — Disconnected Resource Availability
MO-004d — Disconnected Resource Availability	3.1 Connectivity Conditions 4.3 External Systems - MO-004a — Connected Environment Operations - MO-004b — Disconnected Environment Operations - MO-004c — Authorized Resource Use
or-005	Plugin Backlinks: Nothing was found.

Requirement Title	Referenced By
FR-MC-005 — Edge Deployments	• 3.2 Deployment Environments • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment
FR-CFG-004 — Environment Inheritance	Plugin Backlinks: Nothing was found.
FR-COMP-006 — FedRAMP Baseline Definitions	• 5.4 Assess Compliance • 6.1 Construct and Assess the Environment • 8.1 Select Compliance Criteria and Baselines
FR-DSO-001 — Git-Based Workflow Integration	Plugin Backlinks: Nothing was found.
FR-DSO-002 — GitOps Workflow Integration	Plugin Backlinks: Nothing was found.
FR-MC-004 — Hybrid-Cloud Deployments	• 3.2 Deployment Environments • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment
FR-IMG-006 — Image Promotion Workflows	• 5.2 Construct Images • 6.1 Construct and Assess the Environment
FR-IMG-004 — Image Signing	• 5.2 Construct Images • 6.1 Construct and Assess the Environment
FR-IMG-005 — Image Verification	• 5.2 Construct Images • 6.1 Construct and Assess the Environment
FR-IMG-003 — Immutable Infrastructure Workflows	• 5.2 Construct Images • 6.1 Construct and Assess the Environment
OR-003e — Information Handling Rule Enforcement	• 3.3 Security Domains and Transfer Boundaries • 4.1 Human Actors • 7.3 Transfer Across the Boundary • 7.4 Import the Transfer Bundle
FR-CFG-002 — Infrastructure as Code	Plugin Backlinks: Nothing was found.

Requirement Title	Referenced By
MO-005a — Infrastructure Baseline Artifact Management	• MO-005b — Infrastructure Baseline Identification • MO-005c — Infrastructure Baseline Revision Control • MO-005d — Approved Infrastructure Baseline Selection • MO-005e — Infrastructure Baseline Reuse • MO-005f — Approved Infrastructure Baseline Preservation • MO-005g — Infrastructure Deployment Baseline Traceability
MO-005b — Infrastructure Baseline Identification	• MO-005a — Infrastructure Baseline Artifact Management • MO-005c — Infrastructure Baseline Revision Control • MO-005d — Approved Infrastructure Baseline Selection • MO-005e — Infrastructure Baseline Reuse • MO-005f — Approved Infrastructure Baseline Preservation • MO-005g — Infrastructure Deployment Baseline Traceability
MO-005e — Infrastructure Baseline Reuse	• MO-005a — Infrastructure Baseline Artifact Management • MO-005b — Infrastructure Baseline Identification • MO-005c — Infrastructure Baseline Revision Control • MO-005d — Approved Infrastructure Baseline Selection • MO-005f — Approved Infrastructure Baseline Preservation • MO-005g — Infrastructure Deployment Baseline Traceability

Requirement Title	Referenced By
MO-005c — Infrastructure Baseline Revision Control	• MO-005a — Infrastructure Baseline Artifact Management • MO-005b — Infrastructure Baseline Identification • MO-005d — Approved Infrastructure Baseline Selection • MO-005e — Infrastructure Baseline Reuse • MO-005f — Approved Infrastructure Baseline Preservation • MO-005g — Infrastructure Deployment Baseline Traceability
MO-005g — Infrastructure Deployment Baseline Traceability	• MO-005a — Infrastructure Baseline Artifact Management • MO-005b — Infrastructure Baseline Identification • MO-005c — Infrastructure Baseline Revision Control • MO-005d — Approved Infrastructure Baseline Selection • MO-005e — Infrastructure Baseline Reuse • MO-005f — Approved Infrastructure Baseline Preservation
MO-001a — Infrastructure Environment Creation	• MO-001b — Deployment Duration • MO-001c — Reproducibility • MO-001d — Security Baseline Conformance • MO-001e — Compliance Baseline Conformance
MO-006e — Infrastructure Environment Retirement	• MO-006a — Operational Lifecycle Association • MO-006b — Infrastructure Lifecycle Initiation • MO-006c — Infrastructure Lifecycle State Recording • MO-006d — Infrastructure Lifecycle Transition Execution

Requirement Title	Referenced By
MO-006b — Infrastructure Lifecycle Initiation	• MO-006a — Operational Lifecycle Association • MO-006c — Infrastructure Lifecycle State Recording • MO-006d — Infrastructure Lifecycle Transition Execution • MO-006e — Infrastructure Environment Retirement
MO-006c — Infrastructure Lifecycle State Recording	• MO-006a — Operational Lifecycle Association • MO-006b — Infrastructure Lifecycle Initiation • MO-006d — Infrastructure Lifecycle Transition Execution • MO-006e — Infrastructure Environment Retirement
MO-006d — Infrastructure Lifecycle Transition Execution	• MO-006a — Operational Lifecycle Association • MO-006b — Infrastructure Lifecycle Initiation • MO-006c — Infrastructure Lifecycle State Recording • MO-006e — Infrastructure Environment Retirement
MO-003d — Limitation of Provider-Specific Dependencies	• 3.2 Deployment Environments • 4.3 External Systems • MO-003a — Cross-Platform Deployment • MO-003b — Provider-Independent Crucible Description • MO-003c — Provider-Independent Infrastructure Baseline
MO-002a — Maximum Platform Deployment Duration	• MO-002b — Platform Deployment Duration Reduction
FR-COMP-008b — Multiple Operating-System Support	• 5.4 Assess Compliance • 6.1 Construct and Assess the Environment • 8.2 Perform Compliance Assessments

Requirement Title	Referenced By
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
FR-BAS-004 — Perform Noninteractive Workspace Execution	• 5.1 Select and Compose Baselines
MO-002b — Platform Deployment Duration Reduction	• MO-002a — Maximum Platform Deployment Duration
OR-001c — Platform Engineer Operations	• OR-001a — Developer Operations • OR-001b — DevSecOps Engineer Operations • OR-001d — System Administrator Operations • OR-001e — Security Engineer Operations • OR-001f — Compliance Officer Operations
FR-DEPC-004 — Populate Offline Repositories	• 5.3 Capture and Preserve Dependencies • 7.5 Populate Offline Repositories • 7.6 Rebuild and Deploy
FR-DEPC-002 — Preserve Dependencies in a Dependency Store	• 5.3 Capture and Preserve Dependencies • 7.1 Capture and Preserve Dependencies
FR-BAS-003 — Process Predeployment and Postdeployment Steps	• 5.1 Select and Compose Baselines
FR-DEPC-003 — Produce a Transfer Bundle	• 5.3 Capture and Preserve Dependencies • 7.2 Produce the Transfer Bundle
MO-003b — Provider-Independent Crucible Description	• 3.2 Deployment Environments • MO-003a — Cross-Platform Deployment • MO-003c — Provider-Independent Infrastructure Baseline • MO-003d — Limitation of Provider-Specific Dependencies

Requirement Title	Referenced By
MO-003c — Provider-Independent Infrastructure Baseline	• 3.2 Deployment Environments • MO-003a — Cross-Platform Deployment • MO-003b — Provider-Independent Crucible Description • MO-003d — Limitation of Provider-Specific Dependencies
FR-MC-002 — Provider-Specific Extensions	• 3.2 Deployment Environments • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment
MO-001c — Reproducibility	• MO-001a — Infrastructure Environment Creation • MO-001b — Deployment Duration • MO-001d — Security Baseline Conformance • MO-001e — Compliance Baseline Conformance
FR-CFG-003 — Reusable Infrastructure Blueprints	Plugin Backlinks: Nothing was found.
FR-COMP-009b — Risk Management Framework Evidence	• 5.4 Assess Compliance • 5.7 Preserve Evidence and Lifecycle Records • 6.1 Construct and Assess the Environment • 8.4 Generate Supporting Evidence
MO-001d — Security Baseline Conformance	• MO-001a — Infrastructure Environment Creation • MO-001b — Deployment Duration • MO-001c — Reproducibility • MO-001e — Compliance Baseline Conformance
FR-COMP-009a — Security Control Traceability Matrix Evidence	• 5.4 Assess Compliance • 5.7 Preserve Evidence and Lifecycle Records • 6.1 Construct and Assess the Environment • 8.4 Generate Supporting Evidence

Requirement Title	Referenced By
OR-003g — Security Domain Access Control	• 3.3 Security Domains and Transfer Boundaries • 4.1 Human Actors • 4.3 External Systems
OR-003d — Security Domain Information Enforcement	• 3.3 Security Domains and Transfer Boundaries • 4.1 Human Actors • 4.3 External Systems • 7.3 Transfer Across the Boundary • 7.4 Import the Transfer Bundle
OR-003c — Security Domain Resource Enforcement	• 3.3 Security Domains and Transfer Boundaries • 4.1 Human Actors • 4.3 External Systems
OR-001e — Security Engineer Operations	• OR-001a — Developer Operations • OR-001b — DevSecOps Engineer Operations • OR-001c — Platform Engineer Operations • OR-001d — System Administrator Operations • OR-001f — Compliance Officer Operations
FR-UI-001 — Shared Interface Operations	• 9.1 Shared Interface Operations • C.3.11 Crucible Interfaces
OR-001d — System Administrator Operations	• OR-001a — Developer Operations • OR-001b — DevSecOps Engineer Operations • OR-001c — Platform Engineer Operations • OR-001e — Security Engineer Operations • OR-001f — Compliance Officer Operations
OR-003b — Unclassified Environment Operations	• 3.3 Security Domains and Transfer Boundaries
FR-UI-003 — Web-Based User Interface	• 9.3 Web-Based User Interface • C.3.11 Crucible Interfaces

Notes for Editors

- Each requirement title is displayed from the canonical requirement page
 - Do not add custom display text to requirement links
 - Confirm the canonical page title and namespace for each requirement
 - Add every remaining Annex C leaf requirement
 - Exclude true parent requirements that contain child requirements
 - Retain `start` for leaf requirements implemented as namespace index pages
 - Sort the completed table alphabetically by the displayed canonical page title
 - Treat a requirement with no returned backlinks as requiring coverage review
-

© 2026 Dido Solutions, Inc. and Jackrabbit Consulting, Inc.

Notes for Editors

- Confirm each displayed title against the canonical requirement page
 - Add every remaining Annex C leaf requirement
 - Exclude parent requirements that contain child requirements
 - Retain `start` for leaf requirements implemented as namespace index pages
 - Sort the final table alphabetically by canonical displayed title
 - A requirement with no returned backlinks requires coverage review
-

© 2026 Dido Solutions, Inc. and Jackrabbit Consulting, Inc.

Contents

- [D.1 Mission Objective Traceability](#)
- [D.2 Operational Requirement Traceability](#)
- [D.3 Functional Requirement Traceability](#)
- [D.4 Cross-Cutting Requirement Traceability](#)
- [D.5 Requirements Coverage Summary](#)
- [D.6 Uncovered and Partially Covered Requirements](#)

Traceability Rules

The traceability information follows these rules:

- Include only canonical leaf requirements
- Treat a requirement implemented as a namespace `start` page as a leaf when it has no child requirements

- Exclude parent requirements that have leaf children
- Link each requirement title to its canonical Annex C page
- Sort the Requirements Traceability Index alphabetically by displayed title
- Identify every Crucible page that directly references the requirement
- Do not copy or paraphrase the canonical requirement Statement
- Record requirements without references as uncovered until reviewed
- Record ConOps pages without supporting requirements as unsupported until reviewed

Coverage Status

Detailed traceability pages can use the following coverage statuses:

Status	Meaning
Complete	The referenced Crucible content provides operational coverage consistent with the requirement Statement
Partial	The referenced content addresses only part of the requirement Statement
Not Covered	No current Crucible page provides identifiable coverage
Outside ConOps Scope	The requirement applies to another specification, design, implementation, verification, or governance artifact
Future Capability	The requirement applies to a capability outside the current operational baseline
Review Required	The available requirement or coverage information is insufficient to determine the appropriate status

Relationship to Annex E

[Annex E: Issues](#) records problems discovered during traceability review.

Examples include:

- A requirement without operational coverage
- A ConOps capability without a supporting requirement
- A requirement that requires further decomposition
- An ambiguous or incomplete requirement Statement
- An incorrect parent or leaf classification
- A missing requirement page
- An inconsistent requirement namespace or title
- A proposed future capability

Annex D records the traceability condition. Annex E records the issue and its resolution status.

Notes for Editors

Populate the Requirements Traceability Index only after confirming the complete Annex C leaf-requirement inventory.

Do not list true parent requirements when their leaf children provide the normative Statements.

Where a leaf requirement uses a namespace start page for numerical ordering, link to the actual start page.

The **Referenced By** column should derive from direct links to the canonical requirement page wherever the available DokuWiki backlink mechanism permits dynamic generation.

© 2026 Dido Solutions, Inc. and Jackrabbit Consulting, Inc.

From:
<https://wiki.didosolutions.com/> - **Dido Solutions, Inc Wiki**

Permanent link:
<https://wiki.didosolutions.com/dido/02-crusible/99-annexes/annex-d-requirements-traceability/start>

Last update: **2026/08/02 00:18**

