

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
FR-COMP-009c — Authorization to Operate Evidence	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.4 Assess Compliance • 5.7 Preserve Evidence and Lifecycle Records • 6.1 Construct and Assess the Environment

Requirement Title	Referenced By
FR-BAS-001 — Consume Baseline Repositories from a Workspace	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.1 Select and Compose Baselines Plugin Backlinks: Nothing was found.
FR-BAS-002 — Compose Selected Baselines	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.1 Select and Compose Baselines Plugin Backlinks: Nothing was found.
FR-BAS-003 — Process Predeployment and Postdeployment Steps	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.1 Select and Compose Baselines Plugin Backlinks: Nothing was found.
FR-BAS-004 — Perform Noninteractive Workspace Execution	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.1 Select and Compose Baselines Plugin Backlinks: Nothing was found.

Requirement Title	Referenced By
OR-003a — Classified Environment Operations	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 3.3 Security Domains and Transfer Boundaries Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found.
FR-UI-002 — Command-Line Interface	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found.
FR-COMP-001 — Compliance Baseline Definitions	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.4 Assess Compliance • 6.1 Construct and Assess the Environment
FR-COMP-004 — Compliance Evidence Artifacts	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.4 Assess Compliance • 6.1 Construct and Assess the Environment

Requirement Title	Referenced By
FR-COMP-010a — Compliance Finding Transfer Bundle Inclusion	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.4 Assess Compliance • 5.7 Preserve Evidence and Lifecycle Records • 6.1 Construct and Assess the Environment
FR-COMP-010b — Compliance Finding Association Preservation	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.4 Assess Compliance • 5.7 Preserve Evidence and Lifecycle Records • 6.1 Construct and Assess the Environment
FR-COMP-003 — Compliance Reporting	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.4 Assess Compliance • 6.1 Construct and Assess the Environment

Requirement Title	Referenced By
FR-COMP-008a — Compliance Scanning Abstraction	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.4 Assess Compliance • 6.1 Construct and Assess the Environment
FR-COMP-002 — Compliance Scanning Tool Integration	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.4 Assess Compliance • 6.1 Construct and Assess the Environment
FR-IMG-002 — Build Container Images	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.2 Construct Images • 6.1 Construct and Assess the Environment
OR-003f — Cross-Domain Transfer Control	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 3.3 Security Domains and Transfer Boundaries • 4.1 Human Actors Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found.

Requirement Title	Referenced By
FR-COMP-007 — Custom Compliance Frameworks	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.4 Assess Compliance • 6.1 Construct and Assess the Environment
FR-DEPC-001 — Capture Build Dependencies	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.3 Capture and Preserve Dependencies Plugin Backlinks: Nothing was found.
FR-DEPC-002 — Preserve Dependencies in a Dependency Store	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.3 Capture and Preserve Dependencies Plugin Backlinks: Nothing was found.
FR-DEPC-005 — Dependency Store Implementation Independence	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.3 Capture and Preserve Dependencies Plugin Backlinks: Nothing was found.

Requirement Title	Referenced By
FR-DEP-001 — Deploy Infrastructure Resources	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 3.2 Deployment Environments Plugin Backlinks: Nothing was found. • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment
FR-DEP-002 — Deploy Virtual Machines	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 3.2 Deployment Environments Plugin Backlinks: Nothing was found. • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment
FR-DEP-003 — Deploy Kubernetes Clusters	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 3.2 Deployment Environments Plugin Backlinks: Nothing was found. • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment

Requirement Title	Referenced By
FR-DEP-004 — Deploy Containerized Workloads	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 3.2 Deployment Environments Plugin Backlinks: Nothing was found. • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment
FR-DEP-005 — Deploy Platform Services	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 3.2 Deployment Environments Plugin Backlinks: Nothing was found. • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment
FR-DEP-007 — Deployment Validation	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.6 Validate the Result Plugin Backlinks: Nothing was found.
FR-COMP-005 — DISA STIG Compliance Baselines	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.4 Assess Compliance • 6.1 Construct and Assess the Environment

Requirement Title	Referenced By
FR-MC-005 — Edge Deployments	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 3.2 Deployment Environments Plugin Backlinks: Nothing was found. • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment
FR-COMP-006 — FedRAMP Baseline Definitions	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.4 Assess Compliance • 6.1 Construct and Assess the Environment
FR-MC-004 — Hybrid-Cloud Deployments	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 3.2 Deployment Environments Plugin Backlinks: Nothing was found. • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment
FR-IMG-006 — Image Promotion Workflows	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.2 Construct Images • 6.1 Construct and Assess the Environment

Requirement Title	Referenced By
FR-IMG-004 — Image Signing	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.2 Construct Images • 6.1 Construct and Assess the Environment
FR-IMG-005 — Image Verification	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.2 Construct Images • 6.1 Construct and Assess the Environment
FR-IMG-003 — Immutable Infrastructure Workflows	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.2 Construct Images • 6.1 Construct and Assess the Environment
OR-003e — Information Handling Rule Enforcement	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 3.3 Security Domains and Transfer Boundaries • 4.1 Human Actors Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found.

Requirement Title	Referenced By
FR-COMP-008b — Multiple Operating-System Support	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.4 Assess Compliance • 6.1 Construct and Assess the Environment
FR-DEPC-004 — Populate Offline Repositories	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.3 Capture and Preserve Dependencies
FR-MC-001 — Cloud Provider Abstraction	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 3.2 Deployment Environments Plugin Backlinks: Nothing was found. • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment
FR-MC-002 — Provider-Specific Extensions	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 3.2 Deployment Environments Plugin Backlinks: Nothing was found. • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment

Requirement Title	Referenced By
FR-MC-003 — Deployment Portability Across Cloud Providers	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 3.2 Deployment Environments Plugin Backlinks: Nothing was found. • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment
FR-COMP-009b — Risk Management Framework Evidence	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.4 Assess Compliance • 5.7 Preserve Evidence and Lifecycle Records • 6.1 Construct and Assess the Environment
OR-003g — Security Domain Access Control	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 3.3 Security Domains and Transfer Boundaries • 4.1 Human Actors • 4.3 External Systems Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found.

Requirement Title	Referenced By
OR-003d — Security Domain Information Enforcement	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 3.3 Security Domains and Transfer Boundaries • 4.1 Human Actors • 4.3 External Systems Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found.
OR-003c — Security Domain Resource Enforcement	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 3.3 Security Domains and Transfer Boundaries • 4.1 Human Actors • 4.3 External Systems Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found.
FR-COMP-009a — Security Control Traceability Matrix Evidence	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.4 Assess Compliance • 5.7 Preserve Evidence and Lifecycle Records • 6.1 Construct and Assess the Environment

Requirement Title	Referenced By
FR-UI-001 — Shared Interface Operations	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found.
FR-DEPC-003 — Produce a Transfer Bundle	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.3 Capture and Preserve Dependencies Plugin Backlinks: Nothing was found.
OR-003b — Unclassified Environment Operations	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 3.3 Security Domains and Transfer Boundaries Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found.
FR-IMG-001 — Build Virtual Machine Images	Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. Plugin Backlinks: Nothing was found. • 5.2 Construct Images • 6.1 Construct and Assess the Environment

Requirement Title	Referenced By
FR-UI-003 — Web-Based User Interface	Plugin Backlinks: Nothing was found.
	Plugin Backlinks: Nothing was found.
	Plugin Backlinks: Nothing was found.
	Plugin Backlinks: Nothing was found.
	Plugin Backlinks: Nothing was found.
	Plugin Backlinks: Nothing was found.

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

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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

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- [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.

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