

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

D.1 Requirements Traceability Index

[Go to Annex D: Requirements Traceability](#)

Requirement Title	Referenced By
Authority 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 • Annex D: Requirements Traceability
Baseline Composition	• 5.1 Select and Compose Baselines • Annex D: Requirements Traceability

Requirement Title	Referenced By
Baseline Workspace Preparation	5.1 Select and Compose Baselines - Annex D: Requirements Traceability
Baseline-Only Composition	5.1 Select and Compose Baselines - Annex D: Requirements Traceability
Version-Controlled Baseline Selection	5.1 Select and Compose Baselines - Annex D: Requirements Traceability
Classified Environment Operations	3.3 Security Domains and Transfer Boundaries - Annex D: Requirements Traceability
Command-Line Interface	9.2 Command-Line Interface - C.3.11 Crucible Interfaces - Annex D: Requirements Traceability
Compliance Baseline Definitions	5.4 Assess Compliance 6.1 Construct and Assess the Environment 8.1 Select Compliance Criteria and Baselines - Annex D: Requirements Traceability
Compliance Evidence Artifacts	5.4 Assess Compliance 6.1 Construct and Assess the Environment 8.4 Generate Supporting Evidence - Annex D: Requirements Traceability
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 - Annex D: Requirements Traceability

Requirement Title	Referenced By
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 • Annex D: Requirements Traceability
Compliance Reporting	• 5.4 Assess Compliance • 6.1 Construct and Assess the Environment • 8.3 Produce Compliance Reports • Annex D: Requirements Traceability
Compliance Scanning Abstraction	• 5.4 Assess Compliance • 6.1 Construct and Assess the Environment • 8.2 Perform Compliance Assessments • Annex D: Requirements Traceability
Compliance Scanning Tool Integration	• 5.4 Assess Compliance • 6.1 Construct and Assess the Environment • 8.2 Perform Compliance Assessments • Annex D: Requirements Traceability
Container Image Construction	• 5.2 Construct Images • 6.1 Construct and Assess the Environment • 7.6 Rebuild and Deploy • Annex D: Requirements Traceability
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 • Annex D: Requirements Traceability

Requirement Title	Referenced By
Custom Compliance Frameworks	• 5.4 Assess Compliance • 6.1 Construct and Assess the Environment • 8.1 Select Compliance Criteria and Baselines • Annex D: Requirements Traceability
Dependency Capture	• 5.3 Capture and Preserve Dependencies • 7.1 Capture and Preserve Dependencies • Annex D: Requirements Traceability
Dependency Preservation	• 5.3 Capture and Preserve Dependencies • 7.1 Capture and Preserve Dependencies • Annex D: Requirements Traceability
Dependency Store Representation	• 5.3 Capture and Preserve Dependencies • 7.1 Capture and Preserve Dependencies • Annex D: Requirements Traceability
Deploy Infrastructure Resources	• 3.2 Deployment Environments • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment • 7.6 Rebuild and Deploy • Annex D: Requirements Traceability
Deploy Containerized Workloads	• 3.2 Deployment Environments • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment • 7.6 Rebuild and Deploy • Annex D: Requirements Traceability

Requirement Title	Referenced By
Deploy Kubernetes Clusters	• 3.2 Deployment Environments • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment • 7.6 Rebuild and Deploy • Annex D: Requirements Traceability
Deploy Platform Services	• 3.2 Deployment Environments • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment • 7.6 Rebuild and Deploy • Annex D: Requirements Traceability
Deploy Virtual Machines	• 3.2 Deployment Environments • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment • 7.6 Rebuild and Deploy • Annex D: Requirements Traceability
Deployment Validation	• 5.6 Validate the Result • Annex D: Requirements Traceability
DISA STIG Compliance Baselines	• 5.4 Assess Compliance • 6.1 Construct and Assess the Environment • 8.1 Select Compliance Criteria and Baselines • Annex D: Requirements Traceability
FedRAMP Baseline Definitions	• 5.4 Assess Compliance • 6.1 Construct and Assess the Environment • 8.1 Select Compliance Criteria and Baselines • Annex D: Requirements Traceability

Requirement Title	Referenced By
Edge Deployment Support	• 3.2 Deployment Environments • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment • Annex D: Requirements Traceability
Hybrid-Cloud Deployment Support	• 3.2 Deployment Environments • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment • Annex D: Requirements Traceability
Image Promotion Workflows	• 5.2 Construct Images • 6.1 Construct and Assess the Environment • Annex D: Requirements Traceability
Image Signing	• 5.2 Construct Images • 6.1 Construct and Assess the Environment • Annex D: Requirements Traceability
Image Verification	• 5.2 Construct Images • 6.1 Construct and Assess the Environment • Annex D: Requirements Traceability
Immutable Infrastructure Workflows	• 5.2 Construct Images • 6.1 Construct and Assess the Environment • Annex D: Requirements Traceability
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 • Annex D: Requirements Traceability

Requirement Title	Referenced By
Multiple Operating-System Support	• 5.4 Assess Compliance • 6.1 Construct and Assess the Environment • 8.2 Perform Compliance Assessments • Annex D: Requirements Traceability
Offline Repository Population	• 5.3 Capture and Preserve Dependencies • 7.5 Populate Offline Repositories • 7.6 Rebuild and Deploy • Annex D: Requirements Traceability
Operating-System-Independent Compliance Scanning	• 5.4 Assess Compliance • 6.1 Construct and Assess the Environment • 8.2 Perform Compliance Assessments • Annex D: Requirements Traceability
Provider Abstraction	• 3.2 Deployment Environments • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment • Annex D: Requirements Traceability
Provider-Specific Extensions	• 3.2 Deployment Environments • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment • Annex D: Requirements Traceability
Provider Deployment Portability	• 3.2 Deployment Environments • 5.5 Deploy the Environment • 6.2 Deploy in a Connected Environment • Annex D: Requirements Traceability

Requirement Title	Referenced By
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 • Annex D: Requirements Traceability
Security Domain Access Control	• 3.3 Security Domains and Transfer Boundaries • 4.1 Human Actors • 4.3 External Systems • Annex D: Requirements Traceability
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 • Annex D: Requirements Traceability
Security Domain Resource Enforcement	• 3.3 Security Domains and Transfer Boundaries • 4.1 Human Actors • 4.3 External Systems • Annex D: Requirements Traceability
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 • Annex D: Requirements Traceability

Requirement Title	Referenced By
Shared Interface Operations	• 9.1 Shared Interface Operations • C.3.11 Crucible Interfaces • Annex D: Requirements Traceability
Transfer Bundle Production	• 5.3 Capture and Preserve Dependencies • 7.2 Produce the Transfer Bundle • Annex D: Requirements Traceability
Unclassified Environment Operations	• 3.3 Security Domains and Transfer Boundaries • Annex D: Requirements Traceability
Virtual Machine Image Construction	• 5.2 Construct Images • 6.1 Construct and Assess the Environment • 7.6 Rebuild and Deploy • Annex D: Requirements Traceability
Web-Based User Interface	• 9.3 Web-Based User Interface • C.3.11 Crucible Interfaces • Annex D: Requirements Traceability

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.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.

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Last update: **2026/08/01 13:03**

