



ENGINEERING STANDARDS LIBRARY / COMPARATIVE EVALUATIONS

Controlled Proof and Revalidation Guide

Enterprise procedure for converting documentation-grounded comparative evaluations into controlled laboratory and production evidence.

PERMANENT DOCUMENT ID

MYTHOS-CMP-GUIDE-0001

PUBLICATION

Candidate Evaluation Guide
Version 1.1.0-candidate

ASSURANCE PROFILE

Candidate Evaluation
Documentation-Grounded

PERMANENT PUBLICATION IDENTITY

Controlled Proof and Revalidation Guide

Enterprise procedure for converting documentation-grounded comparative evaluations into controlled laboratory and production evidence.

FIELD	VALUE
DOCUMENT ID	MYTHOS-CMP-GUIDE-0001
VERSION	1.1.0-candidate
STATUS	Candidate Evaluation Guide
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CLASSIFICATION	Public
PUBLICATION DOCTRINE Permanent identity is independent of internal production sequence. Claims remain bounded by evidence, assumptions, profiles, mandatory gates, controlled exceptions, and formal revision.	

PUBLICATION ARCHITECTURE

METHOD, EVIDENCE, DECISION, AND REVISION

01 / SCOPE

Define the exact decision, target workloads, candidates, versions, exclusions, and stakeholders.

02 / GATES

Test non-compensable security, state, recovery, change, portability, and evidence conditions.

03 / SCORES

Measure atomic capability under explicit profile weights without hiding architectural differences.

04 / CONFIDENCE

Discount scores by source grade, currency, repeatability, and environment relevance.

05 / PROOF

Run controlled scenarios, failures, migration, recovery, economics, and operator-cognition tests.

06 / DECISION

Record conditional recommendation, residual risk, acceptance, owner, review date, and triggers.

ASSURANCE POSITION

This publication governs a decision process. It does not certify a candidate, guarantee future performance, or replace environment-specific engineering, legal, commercial, security, and operational review.

INTERACTIVE NAVIGATION

PUBLICATION CONTENTS

01 Proof charter

Freeze decision question, candidates, versions, deployment models, profiles, criteria, gates, owners, scenarios, evidenc...

02 Representative environment

Use realistic identity, secrets, integrations, data, scale, topology, dependencies, operator roles, network constraint...

03 Scenario construction

Test normal, degraded, adversarial, recovery, migration, and retirement paths.

04 Instrumentation and evidence

Capture logs, traces, metrics, configuration, state, screenshots, API responses, timing, operator actions, errors...

05 Security and authority tests

Identity, RBAC, privileged actions, secrets, signing, isolation, audit, prompt or input injection where relevant, and inciden...

06 State and recovery tests

Backup, restore, retry, replay, partial failure, corruption, drift, duplicate event, dependency outage, rollback, and rebuild.

07 Performance and scale tests

Define representative workload, latency, throughput, concurrency, retention, growth, and saturation.

08 Operator cognition tests

Use blinded fault scenarios.

09 Migration and exit tests

Import, translate, reconcile, cut over, roll back, export, decommission, and reconstruct.

10 Economics and commercial validation

Model license, metering, infrastructure, data, support, staffing, training, integration, migration, downtime, and exi...

NAVIGATION

The native PDF outline links to each section and remains stable across portfolio assembly and archival packaging.

Proof charter

ENTERPRISE PROCEDURE FOR CONVERTING DOCUMENTATION-GROUNDED COMPARATIVE EVALUATIONS INTO CO

OPERATING POSITION

Freeze decision question, candidates, versions, deployment models, profiles, criteria, gates, owners, scenarios, evidence, and acceptance thresholds before execution.

01

Record commercial and environmental assumptions separately from technical results.

DECISION DISCIPLINE

Every conclusion names evidence, uncertainty, owner, residual risk, acceptance state, and revalidation trigger.

Representative environment

OPERATING POSITION

Use realistic identity, secrets, integrations, data, scale, topology, dependencies, operator roles, network constraints, and recovery objectives.

01

Document every difference from production.

DECISION DISCIPLINE

Every conclusion names evidence, uncertainty, owner, residual risk, acceptance state, and revalidation trigger.

Scenario construction

OPERATING POSITION

Test normal, degraded, adversarial, recovery, migration, and retirement paths.

01

Use identical scenarios where candidates are comparable.

02

Preserve non-equivalence where architectures differ.

DECISION DISCIPLINE

Every conclusion names evidence, uncertainty, owner, residual risk, acceptance state, and revalidation trigger.

Instrumentation and evidence

OPERATING POSITION

Capture logs, traces, metrics, configuration, state, screenshots, API responses, timing, operator actions, errors, and hashes.

01

Preserve raw data and transformation logic.

DECISION DISCIPLINE

Every conclusion names evidence, uncertainty, owner, residual risk, acceptance state, and revalidation trigger.

Security and authority tests

OPERATING POSITION

Identity, RBAC, privileged actions, secrets, signing, isolation, audit, prompt or input injection where relevant, and incident response.

01

Attempt policy bypass and confused-deputy scenarios.

DECISION DISCIPLINE

Every conclusion names evidence, uncertainty, owner, residual risk, acceptance state, and revalidation trigger.

State and recovery tests

OPERATING POSITION

Backup, restore, retry, replay, partial failure, corruption, drift, duplicate event, dependency outage, rollback, and rebuild.

01

Verify service outcome, not component status alone.

DECISION DISCIPLINE

Every conclusion names evidence, uncertainty, owner, residual risk, acceptance state, and revalidation trigger.

Performance and scale tests

OPERATING POSITION

Define representative workload, latency, throughput, concurrency, retention, growth, and saturation.

01

Measure degraded behavior and recovery from overload.

DECISION DISCIPLINE

Every conclusion names evidence, uncertainty, owner, residual risk, acceptance state, and revalidation trigger.

Operator cognition tests

OPERATING POSITION

Use blinded fault scenarios.

01

Measure time to identify scope, form hypothesis, locate evidence, execute correction, and verify recovery.

02

Record unsafe ambiguity and workaround dependence.

DECISION DISCIPLINE

Every conclusion names evidence, uncertainty, owner, residual risk, acceptance state, and revalidation trigger.

Migration and exit tests

OPERATING POSITION

Import, translate, reconcile, cut over, roll back, export, decommission, and reconstruct.

01

Preserve semantic intent, history, evidence, and operator knowledge.

DECISION DISCIPLINE

Every conclusion names evidence, uncertainty, owner, residual risk, acceptance state, and revalidation trigger.

Economics and commercial validation

OPERATING POSITION

Model license, metering, infrastructure, data, support, staffing, training, integration, migration, downtime, and exit across growth cases.

01

Record contractual assumptions and price validity dates.

DECISION DISCIPLINE

Every conclusion names evidence, uncertainty, owner, residual risk, acceptance state, and revalidation trigger.

Acceptance and exception record

OPERATING POSITION

Each criterion receives PASS, CONDITIONAL, FAIL, or NOT APPLICABLE with evidence.

01

Exceptions name owner, compensating control, residual risk, expiration, and validation.

DECISION DISCIPLINE

Every conclusion names evidence, uncertainty, owner, residual risk, acceptance state, and revalidation trigger.

Revalidation operations

OPERATING POSITION

Schedule no later than 90 days for product evaluations.

01

Trigger early review after major release, acquisition, licensing change, critical vulnerability, outage, failed acceptance, or changed profile.

DECISION DISCIPLINE

Every conclusion names evidence, uncertainty, owner, residual risk, acceptance state, and revalidation trigger.

SOURCE AUTHORITY AND REVISION

CURRENT EVIDENCE SNAPSHOT

SOURCE ID	PUBLISHER	TITLE	CHECKED
NIST-CSF-20	NIST	Cybersecurity Framework 2.0	2026-07-24
NIST-SP800-53	NIST	Security and Privacy Controls for Information Systems and Organizations	2026-07-24
NIST-AI-RMF	NIST	AI Risk Management Framework	2026-07-24
CIS-CONTROLS	Center for Internet Security	CIS Critical Security Controls v8.1	2026-07-24

REVISION HISTORY

1.1.0-candidate / 2026-07-24 - permanent-publication candidate edition. Scheduled review: 2026-10-24. Earlier review is required after a major release, evidence failure, critical vulnerability, commercial change, or architecture transition.