

FINAL VERDICT
PASS

R+12 Cross-Domain Provenance Fabric

Five provenance types bound into one verifiable passport

SYSTEM

dcs-rseries-core

TEST SUITE

test/fabric.test.mjs

FROZEN TAG

audit-tob-v1.1.0 · 697f339

REPRODUCED

27 Jul 2026

Closing metrics

33

CHECKS PASSED

0

FAILURES

5

PROVENANCE TYPES

7/7

OFFLINE VERIFY

0

PROD DEPENDENCIES

What this run demonstrates

This binds five different kinds of provenance — the software, the AI model, its bill-of-materials, the compute used, and content disclosure — into a single 'passport' that anyone can verify offline without trusting us. All 33 checks passed, and the passport verified 7 out of 7 ways. If a piece of provenance is missing, the system says so honestly rather than over-claiming.

What this does not prove: The domain roots are live production roots — the suite uses the pick-package test vectors.

Technical verification record

Test file	test/fabric.test.mjs (package: r12-fabric)
Checks passed	33
Failures	0
Provenance domains	5 (software · model · AIBOM · compute · content)
Offline passport verification	7 of 7
Environment	Node v22.22.3 · clean checkout · 0 production dependencies
Frozen root	audit-tob-v1.1.0 · 697f339 (immutable)
Reproduced	27 Jul 2026 · live reproduction from a clean checkout
Test-file sha256	– separate package (r12-fabric); not in reference-core manifest
Final verdict	PASS — reproduced, no failures
Raw machine record	DCS_RSeries_R12_Fabric_Record.json

Complete test summary

- Five domain roots bind into one MMR-anchored passport a client verifies offline (7/7).
- Coverage is computed and honestly enforced — absent domains commit a signed em-dash sentinel; over-claims are rejected two ways.
- Reproduced live 27 Jul from R12_FABRIC_2026-07-23.zip; the test-file sha256 is a separate package and marked as such rather than guessed.

Evidence scope & limitations

This document reports an internal, reproduced software test — not an operational service and not an external audit. A PASS verdict means the recorded test criteria were satisfied on the frozen code (tag audit-tob-v1.1.0 · commit 697f339) under the stated conditions. It does not establish flight qualification, operational deployment, certified post-quantum hardware roots, or independent external audit completion.

Post-quantum non-claim

The Post-Quantum (PQ) leg currently utilizes size-conformant ground stand-ins (pending formal NIST FIPS 204 ML-DSA / FIPS 205 SLH-DSA hardware security module certification). Not flight-qualified. Not independently audited by external third parties.