

DCS LABS / R-SERIES · PRE-AUDIT EVIDENCE RECORD

FINAL VERDICT
PASS

Dual-Anchor Permanence

Two-network permanence + single-chain-outage resilience

SYSTEM

dcs-rseries-core

TEST SUITE

test/dual_anchor.test.mjs

FROZEN TAG

audit-tob-v1.1.0 · 697f339

REPRODUCED

27 Jul 2026

Closing metrics

15

CHECKS PASSED

0

FAILURES

2

ANCHOR NETWORKS

15/15

INCL. NEGATIVES

0

PROD DEPENDENCIES

What this run demonstrates

A record's proof of existence is pinned to two independent public networks. This run checks that the proof still holds if one network goes offline — and, crucially, that the system honestly reports 'not anchored' when both are unavailable instead of pretending. All 15 checks passed, including the ones designed to catch cheating: forged or tampered proofs are rejected.

What this does not prove: Live on-chain permanence today. The Bitcoin rail is a deterministic stand-in and the Base anchor is a local stub; real chain writes require live network keys.

Technical verification record

Test file	test/dual_anchor.test.mjs
Checks passed	15
Failures	0
Anchor networks	2 (Base L2 + Bitcoin stand-in)
Negative cases	forged / tampered / both-down / hostile input — all rejected
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	43e014ea624d8df92279fc0f5a46cea80d4f10daccac359433e17dc39f0f4cf
Final verdict	PASS — reproduced, no failures
Raw machine record	DCS_RSeries_DualAnchor_Record.json

Complete test summary

- A dual-anchored root verifies on each network independently; when one is down, the other still proves the root.
- When both networks are down the system reports UNANCHORED honestly — no false permanence.
- Forged aggregates, tampered inclusion paths, empty weeks and hostile input are all rejected. DARK by default (a live rail is refused unless its *_LIVE=1 flag is set).

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.