

24-Hour Hybrid Soak

Dual-signature fleet continuity under live key rotation, partition injection and refusal testing.

FINAL VERDICT
PASS

Internal adversarial soak testing. Independent third-party security audit remains pending.

SYSTEM	WINDOW	RUN	SOURCE
R-Series hybrid signing fleet - service rseries-soak	19 Jul 2026 17:51 UTC -> 20 Jul 2026 17:51 UTC	Run 4	Closing status JSON supplied 20 Jul 2026

Closing metrics

288 CYCLES 24-hour window	0 CYCLE FAILURES failure rate 0	286 RECEIPTS ISSUED closing total	10/10 FAULTS SURVIVED 100% recovery
23 / 0 DIVERGENCE checks / findings	1 LIVE ROTATION continuity passed	2/2 PARTITIONS detected	10/10 VERDICT CHECKS 0 pending

WHAT THIS RUN DEMONSTRATES

The hybrid signing service completed a full-day run with a live fleet-key rotation, uninterrupted pre/post-rotation continuity and retained verification of both signing legs. It also refused the injected partial signature and detected both network partitions.

EVIDENCE STATUS

Final internal test verdict: PASS, replacing the earlier evidence document that still contained pending placeholders. The raw closing JSON is included in this pack as the machine-readable source of truth.

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Technical results

Metric / gate	Closing result	State
Cycles completed / failed	288 / 0	PASS
Receipts issued	286	RECORDED
Faults injected / survived	10 / 10	PASS
Divergence checks / divergences	23 / 0	PASS
Fleet key rotations	1	PASS
Rotation continuity	Unbroken	PASS
Both signing legs archived	Yes	PASS
Signer restarts	1	PASS
Partial signatures refused	1	PASS
Partitions injected / detected	2 / 2	PASS
Size violations / resource alerts	0 / 0	PASS
Last error	None	PASS
Final verdict	10/10 checks; 0 pending	PASS

Method and controls

- Failure-rate and recovery-rate gates were calculated from observed cycles and injected faults.
- Rotation continuity and retired-key archival had to be earned after the live rotation event.
- Module-2 divergence checks required zero divergence.
- Partial-signature refusal, partition detection, size policy and resource stability were all blocking checks.

ANOMALIES, LIMITS AND DISCLOSURES

This compact record supersedes the earlier draft PDF whose closing table still contained unresolved placeholder fields. It does not explain the two-cycle difference between cycles and receipts because the supplied JSON records the totals but does not attribute that difference.

RAW RECORD AND AUDIT SCOPE

Primary source: DCS_Soak_24h_hybrid_Closing_Record.json. startedAt 2026-07-19T17:51:28.377Z; duration 86,400,000 ms; final verdict PASS; no pending gates. The JSON is included unchanged in Raw_Records/. Internal testing does not constitute external certification.