

Integrity Attestation Report

Resethiq™ • Integrity Infrastructure for AI & Regulated Data

Executive Summary

Dataset / Artifact: package.json

Bytes: 559

Run ID: 9c379327-c0c6-4f2d-a670-cb08ee9aed77

Created: 2026-02-15T05:04:34.566Z

Engine: Resethiq Integrity Engine v0.1.0

Runtime: v20.20.0 • darwin • arm64

This report provides cryptographic and reproducible evidence that the submitted artifact matches the fingerprints and Merkle commitment recorded in the attestation bundle. The bundle is signed with Ed25519 to enable independent verification.

Appendix: Sample Merkle Inclusion Proofs

Below are sampled inclusion proofs for selected chunks. Each proof contains the leaf hash and the sibling path required to recompute the Merkle root.

Proof Type: merkle_inclusion_v1

Merkle Root:

e938fe52cbeb7696b000879e7c12d0ae8eec799d209974d3bbf5ea50c43edd334d9523aaf51852a6eb55e3453b
78acae545d0e5ffa18f2a3d3cc942d61e01b9c

Algorithm: blake2b512

Proof • Leaf index 0 • verifies=true

leaf_hex:

e938fe52cbeb7696b000879e7c12d0ae8eec799d209974d3bbf5ea50c43edd334d9523aaf51852a6eb55e3453b
78acae545d0e5ffa18f2a3d3cc942d61e01b9c

siblings_hex (bottom!top):

Canonicalization & Determinism

Canonicalization Spec: cdr-stream-v1

Deterministic fixed-size chunking over byte-stream; schema-aware canonicalization comes in v2.

Cryptographic Fingerprints

File Digest (BLAKE2b-512):

e938fe52cbeb7696b000879e7c12d0ae8eec799d209974d3bbf5ea50c43edd334d9523aaf51852a6eb55e3453b
78acae545d0e5ffa18f2a3d3cc942d61e01b9c

File Digest (SHA-512):

35706a1e837d60ab4610c918ca08a258d82962ddda5d884485d0a4c716874e327be0c919b1a97aaf7794962795
9c9dc22f742c4115890a93304505c6743836cb

Merkle Commitment:

- **Algorithm:** blake2b512
- **Chunk size:** 4194304
- **Leaf count:** 1
- **Root:**

e938fe52cbeb7696b000879e7c12d0ae8eec799d209974d3bbf5ea50c43edd334d9523aaf51852a6eb55e3453b
78acae545d0e5ffa18f2a3d3cc942d61e01b9c

Signature & Verification Material

Signature Algorithm: ed25519

Signed Message Digest (SHA-512):

85d7b60c676edd03348fcf9bba00173f35cf7395369ed11d6267a5d95e544ddc57ccd1284040f63e76b9270555
6b124a984c32b4b4c2b3cac970bff5f69ad614

Signature (base64):

e/RP/Id2mAtr4EHB9Bqgj8PsLnW5gABj7Ynz5g5eNGFejQ+/eBhmCik69m/MdFAVU97iO6m0qHuTtzIHTqQCA==

Public Key (PEM):

-----BEGIN PUBLIC KEY-----

MCowBQYDK2VwAyEA0VgXx+SHWvvczMnNK8steBQY46wm7+hWlGGyxui9J70=

-----END PUBLIC KEY-----

How to Verify (Independent)

To independently verify this report, recompute the file digests and Merkle root using the stated chunk size, then validate the Ed25519 signature over the signed payload contained in the attestation JSON.

Local verification command (engine CLI):

```
resethiq verify --bundle out/attestation.json --file package.json
```

Generated by Resethiq Integrity Engine. This document is an evidence artifact; cryptographic verification is the source of truth.