

NOVAK PROTOCOL LAWS

Law L3: Data Hash (HD)

Input Attestation & Non-Malleability

Authoritative Edition

L3 Definition



"All decision-making data must be hashed before use.
Tampered, incomplete, or altered data immediately
invalidates execution."

The Attestation Equation

Data is not trusted until it is mathematically sealed.

```
HD = SHA256( Input_Data )
```

HD acts as the "Digital Seal" for the input.

What Constitutes "Data"?

L3 applies to ANY input used to make a decision.



JSON / XML

API payloads & structures.



DB Rows

SQL/NoSQL record sets.



Sensor Data

Robotic & IoT streams.



Documents

PDFs & Evidence files.

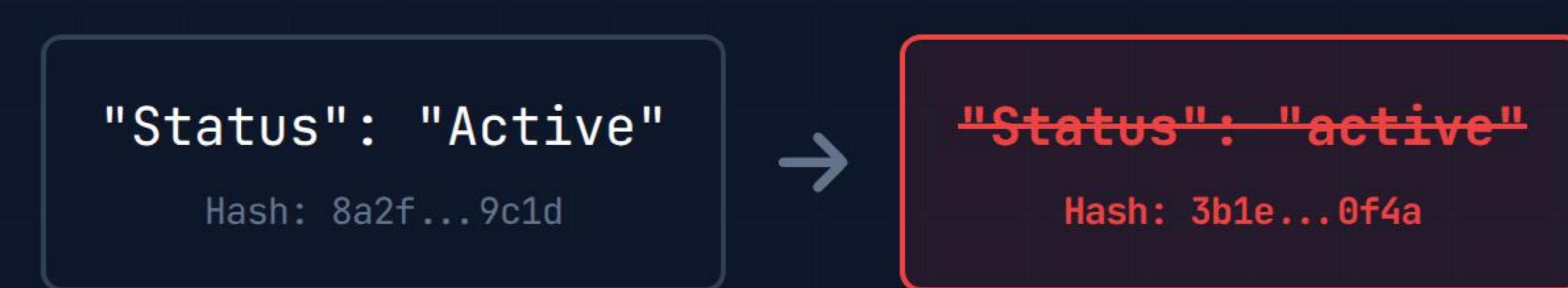
The Attestation Process



This process converts "Information" into "Evidence".

The Principle of Non-Malleability

If you change **one bit**, the seal breaks.



MISMATCH = EXECUTION BLOCKED.

The Frozen Snapshot

Live data is volatile. You cannot verify a stream that keeps changing.

L3 requires that data be **Snapshotted** (Frozen) before the hash is calculated.



Immutable State.

Why L3 Matters

Preventing TOCTOU

Time-of-Check to Time-of-Use attacks. Hashing prevents data from changing between verification and execution.

Preventing Silent Corruption

Bit-rot, database errors, or malicious SQL injection attempts immediately invalidate the hash.

Summary



Data
Integrity

Attestation

Data is not just input; it is attested evidence. L3 guarantees that the system executes on exactly what was approved—nothing more, nothing less.

Questions?

NOVAK Protocol Standards Series

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