

NOVAK PROTOCOL LAWS

Law L7: Recursive Verifiability

The Infinite Audit Chain

Authoritative Edition

L7 Definition



"Every approved HVET must become the next link in a recursive chain. The current state must cryptographically include the entire history of previous states."

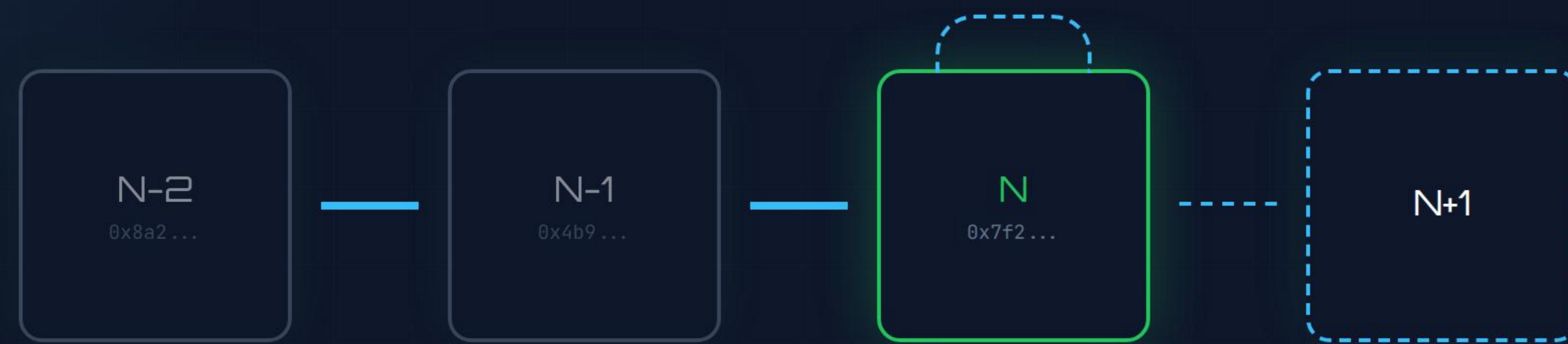
The Recursion Equation

History is math.

$$\text{Receipt}(n) = \text{Hash}(\text{Receipt}(n-1) + \text{HVET}(n))$$

To calculate N , you must possess $N-1$.

The Chain Visualized



Each block locks the one before it.

The Infinite Regression Barrier

The Attack

Hacker tries to delete an entry from yesterday (N-10).



The Barrier

To change N-10, they must re-hash N-9, N-8... all the way to N.

IMPOSSIBLE without detection.

Why Not Just Logs?

Feature	Standard Logs	Blockchain	NOVAK (RGAC)
Immutability	None (Editable)	High	Absolute
Speed	Fast	Slow (Mining)	Fast (Hashing)
Cost	Cheap	Expensive	Cheap
Privacy	High	Low (Public)	High (Hash-Only)

Implementation: RGAC



L7 mandates the **Recursive Global Audit Chain (RGAC)**.

- ⌚ **Storage:** Append-only ledger.
- "sync" icon **Sync:** Global consistency.
- ⌚ **Verify:** Anyone with the latest hash can verify the whole chain.

Forward-Only Integrity



No Deletion

You cannot erase a mistake. You must append a correction.



No Rollback

You cannot revert the state. You must progress to a new state.

The arrow of time moves in one direction.

Summary



Recursive
Audit

The Unbreakable Chain

L7 transforms a series of isolated events into a single, unbreakable thread of truth. It makes the past immutable and the future accountable.

Questions?

NOVAK Protocol Standards Series

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