

NOVAK PROTOCOL LAWS

# Law L7: Recursive Verifiability

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The Infinite Audit Chain

Authoritative Edition



## L7 Definition

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"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

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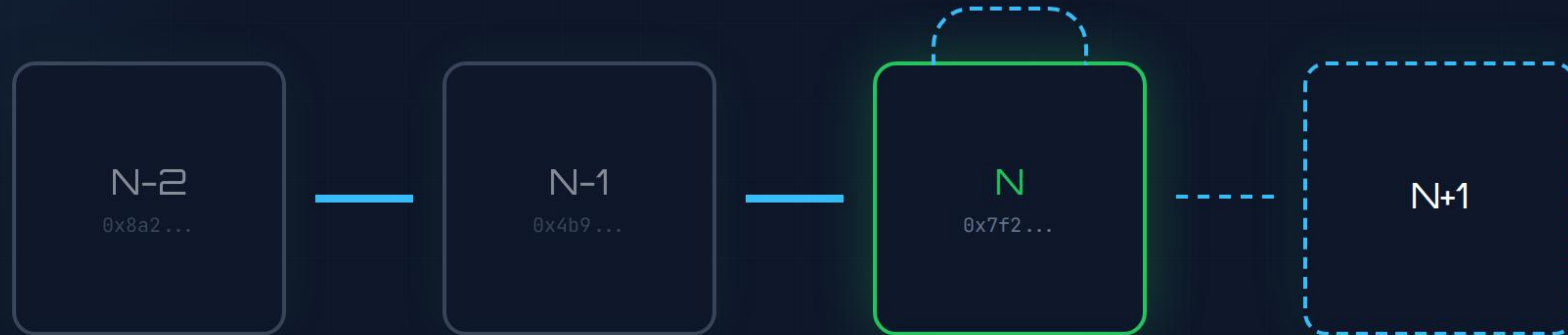
History is math.

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

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

# The Chain Visualized

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Each block locks the one before it.



# The Infinite Regression Barrier

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## 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?

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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


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

 **Storage:** Append-only ledger.

 **Sync:** Global consistency.

 **Verify:** Anyone with the latest hash can verify the whole chain.

# Forward-Only Integrity

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## 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

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**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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