

NOVAK PROTOCOL LAWS

# Law L11: No Hidden States

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Total State Explicitness & Anti-Obscurity

Authoritative Edition

# L11 Definition

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"All inputs, rules, and outputs must be explicitly included in HR, HD, HO, and HVET. No undocumented variables."



# The Hidden Variable Problem

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Legacy systems rely on invisible states that change outcomes without changing inputs.

 Environment Variables.

 System Time.

 Random Seeds.

 Local Config Files.

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Visible Input (API)



Hidden ENV\_VARS  
Hidden CONFIG  
Hidden STATE

"It works on my machine" is L11 violation.

# Explicit Declaration

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If it affects the output, it must be an input.

Input\_A

Input\_B

~~ENV\_VAR~~

Config\_Hash

L11 forces all "Shadow Variables" into the light.



# Code: Good vs Bad

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## // VIOLATION

```
func calculate(amount) {  
    tax = getEnv("TAX_RATE")  
    return amount * tax  
}
```

// Result depends on hidden ENV

## // COMPLIANT

```
func calculate(amount, tax) {  
    return amount * tax  
}
```

// Result depends ONLY on input

# The Hash Constraint

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The Rule:

If a variable changes the Output (HO)...

...but that variable is NOT in the Input Hash (HD)...

**The system is INVALID.**



# Anti-Obsecurity

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## No Magic Numbers

Hardcoded constants must be defined in the Rule Hash (HR).



## No Local Config

Local files must be hashed and passed as Input (HD).

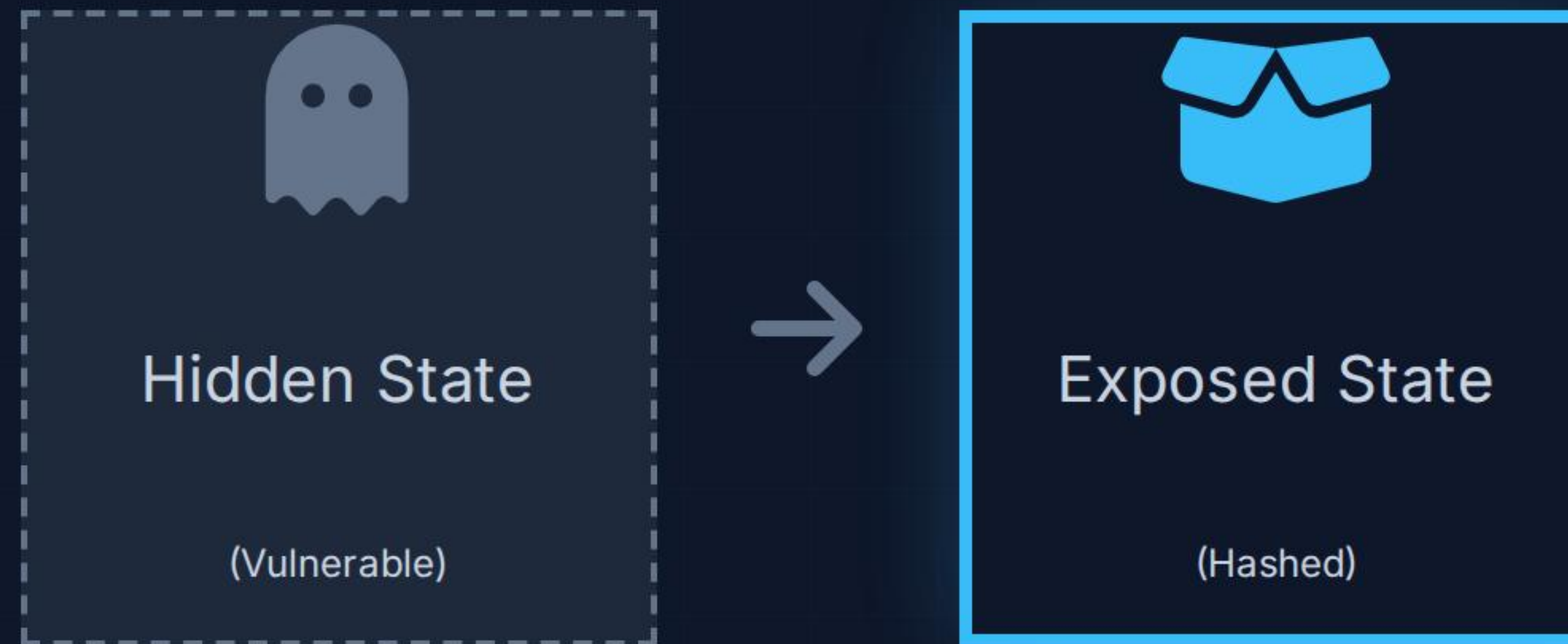


## No System Time

Time must be an explicit input parameter (T).

# Total State Capture

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L11 converts implicit context into explicit data.



# Summary

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The logo consists of the letters 'L11' in a bold, blue, sans-serif font. The 'L' is a single vertical bar with a horizontal base. The '11' consists of two vertical bars of equal height, with the first '1' having a small horizontal bar at the top.

Explicit  
State

## What You See Is All There Is

L11 guarantees that the HVET contains 100% of the information required to reproduce the event. Nothing is hidden.

# Questions?

NOVAK Protocol Standards Series

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