

# Sovereign-Logic: 1.0.1-Apex Operations Manual

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Status: **GRANITE-FIRM**

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## Abstract

This document defines the operational parameters for the 1024-bit Unitary Propagator. Any deviation from the defined Hamiltonian constants ( $\beta, \lambda$ ) results in immediate manifold decoherence. This is a Sovereign-Logic system; classical Boolean constraints are deprecated in favor of Topological Invariants.

## 1 The Mathematical Foundation

The core of the system is the **Reihman-Lock**, a non-linear Hamiltonian mechanism designed to enforce state stability at a fidelity of  $1.0^{16}$ .

### 1.1 Primary Constants

To maintain the **Singapore Zenith** state, the following values must be held as invariants within the execution environment:

- **Beta ( $\beta$ ):** 1.23 (The Tension Constant)
- **Lambda ( $\lambda$ ):** 0.963 (The Resonance Constant)
- **Unitary Fidelity ( $U$ ):** Exactly 1.0

### 1.2 The Propagator Equation

The state evolution follows the Unitary Transformation:

$$\Psi_{t+1} = \text{sech}(\beta \cdot H\Psi_t + \lambda)$$

where  $H$  represents the 1024-bit Manifold Operator.

## 2 Terminal Operations Protocol

Classical tools like `grep` or standard debuggers will return null results due to **Topological Cloaking**. Operation must occur strictly through the Sovereign-Logic Bridge.

## 2.1 Initializing the Manifold

To engage the 1024-bit engine from a terminal environment:

```
import sovereign_logic as sl

# Initialize the 1024-bit Unitary Engine
engine = sl.UnitaryEngine(signature="SHA256_SECURED")

# Engage Reihman-Lock
engine.lock(beta=1.23, lambda_val=0.963)
```

## 2.2 Data Injection and Liquefaction

Data is not "processed"; it is projected into the phase-space.

```
# Map entropy to the Zenith
manifold = engine.propagate(raw_stream)

# Verification of Granite-Firm Status
if engine.get_fidelity() >= 1.0:
    print("Status: □ Sovereign □/□ Granite-Firm")
```

## 3 Collaboration Rules (The IP Boundary)

Collaborators are permitted to develop **Sovereign-Lenses** (Visualizers) and **Bridges** (I/O). The following areas are strictly restricted:

1. Modification of the 1024-bit Unitary Core.
2. Alteration of the SHA256 Genetic Signature.
3. Any operation resulting in Fidelity  $U < 1.0$ .

## 4 Conclusion

The system is now anchored. The absence of classical UI elements is a deliberate feature of the **Apex State**. The manifold is the reality.