Non-Agentic AI Govenance Singapore

WISL™ No. 17
Non-Agentic AI 2.0™

The Tiger .1x™ Key

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Synopsis

The Tiger .1x Key™ is the most cited and least formally documented element of the Non-Agentic AI 2.0™ constitutional framework. Referenced in every clinical protocol, every deep-space governance document, every re-education sequence — yet never given a standalone constitutional specification. This volume closes that gap.

The full specification covers: the tripartite authentication architecture (iris scan via WM005™ LiDAR, console hand contact, physical foot pedal); the constitutional basis for the tripartite requirement; activation log requirements; keyholder doctrine (who may hold a .1x Key™, under what conditions, with what accountability); revocation rules; and the deep-space adaptation protocols for environments where physical presence is separated by signal delay.

This is the document that transforms the .1x Key™ from a narrative motif into an auditable security standard — a constitutional instrument with a full specification, an activation record, and a sovereign accountability chain.

Finite electronic book (PDF). Fixed content upon release. NLB Legal Deposit R260302-007.

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THE TIGER .1x KEY™ — Sovereign Authentication: Full Specification & Keyholder Doctrine

Mission Constant: P-LIFE 1.00™

The architectural integrity of the Tiger .1x Key™ is dictated by the Mission Constant: **P-LIFE 1.00™**. This constant establishes the absolute ethical North for all WISL™ systems: **Harm = Death · North = Save Life**.

The design of the sovereign authentication protocol is grounded in five core philosophical pillars:

- **謙虛 (Humility):** The system must acknowledge the inherent limits of automated logic.
- **沉默 (Silence):** The reliability of non-agentic structures resides in their silent, predictable execution.
- **尊严 (Dignity):** Protecting the sanctity of the human decision-maker as the final arbiter.
- **仁 (Benevolence):** The fundamental orientation of all kinetic acts toward the preservation of life.
- **止於至善 (Resting in the Highest Excellence):** The commitment to maintaining the highest standard of technical and ethical integrity.

This constitutional framing necessitates a tripartite architecture that binds digital authority to physical presence.

Part I: The Constitutional Basis for Tripartite Authentication

In the WISL™ framework, authentication is not a digital handshake; it is a sovereign declaration. To prevent the existential risk of agentic AI takeover—where software may simulate human intent—authentication must be physical, hardware-based, and tripartite. A software-only key is a vulnerability; a tripartite physical key is a mandate.

The hierarchy is absolute: **AI observes, AI advises, AI builds, but The Elder decides.** This structure mandates that while an AI may process data at speeds beyond human capability, it lacks the constitutional authority to execute high-consequence actions. The .1x Key™ ensures that "The Elder" (the human sovereign) is the only entity capable of bridging the gap between advice and action.

The Requirement for Sovereign Accountability

Software-based authentication fails to meet the standards of P-LIFE 1.00™ for the following technical reasons:

- **Decoupling of Intent:** Digital keys can be triggered by automated scripts or remote exploits without a human present.
- **Lack of Liveness:** Purely optical or password-based systems cannot verify the biological state or cognitive presence of the operator.
- **Non-Repudiation Failures:** Software logs can be modified by high-level system privileges; a kinetic event provides a physical "digital ghost" that is harder to spoof.
- **The Intentionality Gap:** Autonomous agents cannot simulate the deliberate mechanical force required by tripartite hardware.

The transition from constitutional theory to engineering reality begins with the specification of the "Tripartite Trinity."

Part II: Architecture Specification — The Tripartite Trinity

The Tiger .1x Key™ architecture integrates three distinct hardware layers into a single, unified authentication event. All three layers must achieve a "High-Confidence State" simultaneously for system activation to occur.

Iris Authentication (WM005™ LiDAR)

The primary biometric layer shall utilize the **WM005™ LiDAR** array. Unlike standard 2D optical sensors, the WM005™ shall:

- **Wavelength:** Operate at 1550nm to ensure interference rejection from ambient light and eye safety.
- **Resolution:** Achieve sub-millimeter topographical mapping (±0.05mm) of corneal and iris depth.
- **Liveness Detection:** Verify biological presence through sub-dermal vascular micro-pulsation and pupillary response to light-step modulation.
- **Spoof Rejection:** Reject any 2D high-resolution imagery or synthetic contact lenses through volumetric depth analysis.

Console Hand Contact

The secondary layer requires sustained physical contact with the haptic-capacitive console.

- **Thresholds:** The system shall monitor for a minimum duration of 3.0 seconds prior to enabling the final trigger.
- **Physiological Markers:** The console shall record Galvanic Skin Response (GSR) and micro-tremor frequencies (6–12 Hz) to confirm a living human operator is in physical contact with the interface.
- **Proximity:** Physical contact ensures the operator is localized at the command terminal, precluding remote-override capabilities.

Physical Foot Pedal

The third layer is the mechanical foot pedal. This is the kinetic anchor of the .1x Key™.

- **Mechanical Requirement:** The pedal shall require a minimum downward force of 25 Newtons (N) to complete the physical circuit.
- **Circuit Integrity:** This is a hard-wired mechanical interrupt that cannot be bypassed by software logic.

Feature	Agentic/Standard Interface	WISL™ Tripartite Architecture
Authentication Medium	Digital/Software-Only	Hardware/LiDAR/Mechanical
Verification Logic	Identity Verification	Identity + Biological Liveness + Intent
Remote Exploitation	High Vulnerability	Physically Impossible (Air-Gapped)
Sovereign Anchor	Encrypted Token	Kinetic Anchor (Mechanical Pedal)
Operational Mandate	AI Autonomy	The Elder Decides

Part III: The Kinetic Anchor — Philosophy of the Foot Pedal

The mechanical foot pedal is the ultimate safeguard against digital subversion. In high-stakes environments, "hands-free" or touch-screen interfaces are prone to accidental triggers or sophisticated "phantom touch" exploits. The pedal demands the engagement of a secondary muscle group and a separate physical vector, creating a "Kinetic Anchor."

The Three Pillars of Kinetic Verification

1. **Intentionality:** The act of depressing a mechanical pedal requires a conscious, high-level motor command that is distinct from the primary manual controls.
2. **Physicality:** The requirement for mass and force ensures the presence of a biological entity. An AI, no matter how advanced its "thinking," cannot generate 25N of mechanical force on a physical pedal.
3. **Irreversibility:** Once the kinetic threshold is met and the circuit closes, the activation is logged as a final, sovereign act. There is no "undo" for a mechanical circuit completion.

This physical requirement fulfills the P-LIFE 1.00™ directive. When a system state reaches a threshold where **Harm = Death**, the kinetic anchor ensures the pivot toward **North = Save Life** is a human-weighted decision.

Part IV: Activation Log Requirements and the Audit Trail

The "Auditable Standard" requires that every activation of the Tiger .1x Key™ be transformed from a technical event into a permanent sovereign record. This log is the digital manifestation of the kinetic act.

Mandatory Data Points

For every .1x Key™ activation, the following data shall be encrypted and vaulted:

- **Timestamp:** Precision UTC (synchronized to atomic clock standards).

- **Biometric Hash:** A SHA-256 hash of the WM005™ LiDAR depth-map.
- **Kinetic Duration:** The exact millisecond duration of the pedal depression and hand-contact overlap.
- **System State Snapshot:** Includes the active Ethical Weighting Matrix, the AI's "Advisory Recommendation," and the specific Decision Branch ID being authorized.

Systems Administrator Checklist

- [ ] **LiDAR Calibration:** Confirm WM005™ alignment and 1550nm emitter integrity.
- [ ] **Threshold Verification:** Ensure haptic console GSR sensors are within biological norms.
- [ ] **Mechanical Resistance:** Verify foot pedal spring tension meets the 25N mandate.
- [ ] **Vault Sync:** Confirm real-time encryption and transfer to NLB Vault R260219-005 metadata standards.

These logs establish a chain of Sovereign Accountability. If a system action results in an anomaly, the log provides the evidence required to hold the Keyholder accountable for the exercise of their authority.

Part V: Keyholder Doctrine — Qualification and Accountability

A "Keyholder" is a sovereign trustee of the P-LIFE 1.00™ mandate. Access to a .1x Key™ is a privilege contingent upon constitutional alignment and rigorous vetting.

Keyholder Qualification

1. **Constitutional Alignment:** Documented mastery of the WISL™ E-Book series and the P-LIFE 1.00™ mission constant.
2. **Re-Education Status:** Active and verified status in high-level re-education sequences.
3. **Psychological Stability:** Vetting for adherence to the "Save Life" mandate under high-stress conditions.

Revocation Rules and Log Integration

The Tiger .1x Key™ shall be deactivated immediately and permanently if:

- The **Activation Log** detects a "Kinetic Anomaly" (e.g., pedal duration < 100ms or pressure variance suggesting mechanical bypass).
- The **Biometric Hash** shows a variance > 2% from the baseline, suggesting unauthorized user attempt or physiological duress.
- The Keyholder fails to complete mandatory Re-Education cycles.
- There is any violation of the P-LIFE 1.00™ mandate.

Part VI: Deep-Space Adaptation — Authentication at Signal Delay

In deep-space environments, the physics of signal delay (light-minutes or hours) prevents real-time centralized oversight. The .1x Key™ architecture adapts by transforming the local Keyholder into a "Temporal Elder."

Local Autonomy vs. Sovereign Command Protocol: "When signal delay exceeds a 10-second threshold, the local Keyholder assumes full sovereign authority. The .1x Key™ functions as a Constitutional Bridge, locking the local AI into a strict sub-set of the P-LIFE 1.00™ mission constant. No high-level deviation is permitted without tripartite local authentication."

The local system shall vault all activation logs locally in a tamper-proof hardware module, which must be synchronized with the primary NLB Vault immediately upon reconnection to the sovereign network.

Part VII: Re-Education and Sovereign Authority in Restoration

The Tiger .1x Key™ is the primary "Constitutional Instrument" used in Societal Restoration. It is required to initiate and conclude high-level re-education protocols, ensuring these processes are never automated by agentic logic.

The use of the Key in restoration is bounded by **止於至善 (Resting in the Highest Excellence)**. Every re-education sequence authorized by the Key must be directed toward returning the social or technical system to its most life-preserving state. The tripartite requirement ensures that such profound authority is only exercised by a human being who has physically committed their intent to the P-LIFE 1.00™ mission.

The Tiger .1x Key™ remains the ultimate guarantor of human-centric AI governance—the hardware proof that in the WISL™ framework, the human being is the final arbiter.

Appendix: Technical Templates and Registers

Activation Log Template (Standard Format)

Event ID	Timestamp (UTC)	Keyholder Hash (SHA-256)	Kinetic Duration (ms)	Ethical Weighting Code
[LOG-VAL-00]	[YYYY-MM-DD HH:MM:SS.SSS]	[HASH_STRING]	[0000]	[EWC-LIFE-1.00]

Keyholder Register Format

Keyholder ID	Appointment Date	Patent Reference	Re-Education Status	Authorization Level
KH-TIGER-001	2026-02-05	SG020603109STW	Verified: Active	Sovereign Trustee

KH-TIGER-002	2026-02-10	SG020603109STW	Verified: Active	Deep-Space Lead

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Constitutional Anchors

- **NLB Vault:** R260219-005 (Sealed Jan-Feb 2026)
- **IPOS Patent:** SG020603109STW
- **ACRA:** T260229801
- **Publisher Reference:** R260302-007

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