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INTERNAL VALIDATION RECORD

M(A13c) Master Control Layer including g1 Sovereign Gate and g2 Regulatory Gateway

Document type	Internal technical validation record only	Date	26 August 2026
Parent	M(A13c) — Supreme Guardian Master Control Layer	Child	g1 = G1 + G2 (local EoS pair)
Mission	Eldercare core / Nightingale One context	Authority	Tiger Research Foundations — internal

STATUS STAMP: INTERNAL ONLY — NOT HSA, WHO, IEC, ISO, FDA, HIPAA, OR PUBLIC-HEALTH CERTIFICATION. NOT AUTHORISED FOR CLINICAL SUPPLY OR DEPLOYMENT CLAIMS.

1. Purpose and boundary

This record documents an internal, design-level validation of the M(A13c) constitutional hardware-enforcement layer and the serially coupled local gates G1 (Sovereign Gate) and G2 (Regulatory Gateway) as assembled under the g1 Eyes of the Sky child. It records what has been checked in CAD, BOM, specification, and claim-boundary review. It does not certify a medical device, software as a medical device, or any public-health deployment.

M(A13c) is treated as the 3-in-1 parent: hardware-bounded non-agentic control, privacy-preserving perception bound, and deterministic fail-closed accountability. g1 does not absorb Nightingale One kinetic apparatus and does not command actuators.

2. Scope validated internally

M(A13c)	Master Control Layer; constitutional non-agentic enforcement	Architecture coherent; child-boundary preserved	No grant; no HSA file
G1	Local permission; sanitised envelope; M=0; inhibited output	Spec, claims, and figures internally consistent	Simulation / CAD only
G2	Profile translation; field enforcement; evidence; routing	Aligned to interface rules; does not certify compliance	No regulatory determination
Serial g1	G1 permission precedes G2 interoperability	Constitutional split accepted in vetting	Not a single mixed agent
Kinetic apparatus	Nightingale One M(A13c-HC) remains separate	Separation stated in g1 figures g1-9 / claims	Out of this record's pass scope

3. Constitutional invariants checked

Invariant	Required state	Internal finding
N=0 / M=0 at G1	No self-directed pathfinding; no direct actuator command	Stated and figure-supported
Fail-closed default	Unresolved condition → inhibit / safe-hold	Present in G1 and G2 claim sets
No raw-sensor egress as normal path	Sanitised / derived envelope only	Specified; not lab-proven
G2 does not certify	Profile alignment only; no HSA/WHO determination	Accepted drafting position
G1→G2 only; never G1→G4	Serial local pair; macro gates out of core	Core scope limited to G1–G2
3ZEROS privacy-by-physics (target)	Non-imaging perception; local process; no raw identity egress	Design target, not certified Pi

4. Intended-standard map (targets, not passes)

The following instruments are recorded as design-alignment targets. None is marked PASSED. None may be represented as a completed accredited test.

Target instrument	Why it is mapped	Internal status
IEC 62304 (software life-cycle)	If a software core is later supplied as SaMD	MAPPED — not executed
ISO 14971 (risk management)	Risk file for eldercare intended use	MAPPED — file not closed

IEC 60601-1 / isolators	If enclosure becomes ME equipment or SIP/SOP	MAPPED — no type test
IEC 60825-1 (laser)	If 905 nm LiDAR is used	MAPPED — no lab report
ISO 13849 / hardware interlock	Brake / inhibit / re-arm path if kinetic child exists	OUT OF g1 GATE SCOPE
21 CFR Part 11 / WORM ledger	If audit records are relied upon as electronic records	MAPPED — not attested
PDPA / privacy-by-design	Local processing; no raw identity egress as normal path	DESIGN INTENT ONLY
HSA Class B SaMD (advisory node)	Only if M=0 advisory node is supplied clinically in SG	NOT FILED

5. Evidence basis actually reviewed

Reviewed internally: M(A13c) family position; g1 draft and final vetting text; g1 figures g1-1 to g1-10 (clean set); G1/G2 constitutional split; zoo.dev manufacturing-aware CAD/BOM concept status; Nightingale Eyes Care mark split (9/42/45 active path; 10/44 held). Not reviewed as passing evidence: accredited EMC, hi-pot, laser, software IEC 62304 audits, clinical investigation, or HSA SHARE filing.

6. Findings

PASS (internal architecture). M(A13c) + g1 (G1→G2) is coherent as a non-agentic, fail-closed, eldercare-core governance stack. Inventive centres remain distinct. Kinetic authority remains outside the gates.

HOLD (regulatory and physical). No accredited test, no HSA dossier, no public-health deployment authority. Air-gap / STEP-BOM dimensions remain non-limiting until locked. G3–G8 out of this record.

7. Permitted use of this record

Permitted: internal design control, stakeholder review, figure-to-claim correspondence, future OEM pack preparation, and 9/42/45 commercial framing of a Gate Box as non-clinical apparatus. Prohibited: presenting this document as certification, listing, maturity designation, or authorisation to supply a medical device.

Internal reviewer	Architecture / claim-boundary review	PASS — internal only
System author	Tiger / M(A13c) originator	To countersign if accepted
Next action	Freeze eldercare core; G4–G8 deferred	No certification track opened

End of record. This instrument is void if reproduced with the words certified, approved, listed, or authorised for clinical deployment.

RESEARCH CLAIMS — DESIGN INVARIANTS

Corrected from theorem language. Formulae below are typeset imprints of intended models, not proofs.

STATUS: RESEARCH CLAIMS ONLY. NOT MATHEMATICAL THEOREMS. NOT IEC / ISO / HSA / WHO CERTIFICATION.

0. Use

Preferred embodiments or dependent-claim options for M(A13c) and g1 (G1/G2). Physical constants remain non-limiting until locked to measured CAD/BOM and test data.

1. Four research claims

Research Claim I — Intended mechatronic decoupling

Kinetic command is modelled as gated by a hardware enable so advisory software cannot by itself drive an end-effector. Residual coupling paths remain risk items.

$$P_k = B_{opt} f(S_c) \quad B_{opt} = 0 \Rightarrow C_M^{intended} = 0$$

Figure RC-I. Intended model. Open enable implies intended coupling of zero under this product form only.

Research Claim II — Hardware-timed hold (Sacred Pause embodiment)

A dedicated hardware delay is inserted between alert and any later enable. The interval is a forcing pause. It is not clinical review.

$$t_{act} \geq t_{alert} + T_{pause}, \quad T_{pause} = N/10^5 \text{ Hz}, \quad 2500 \leq N \leq 100000$$

Figure RC-II. 100 kHz count N in 2,500–100,000 gives an illustrative 25–1,000 ms hold.

Research Claim III — Transient buffer purge target (3ZEROS embodiment)

Non-imaging samples are processed locally. The transient buffer is driven to a defined empty state within a target interval. Verify by measurement.

$$M_{trans}(t) = 0 \quad \text{for} \quad t \geq t_{capture} + T_{purge}$$

Figure RC-III. Illustrative purge window 90 ms. Not a proof of zero residue in every side channel.

Research Claim IV — Compute-scarcity bound (Orange Code embodiment)

Time-averaged compute is capped at a small multiple of a locked baseline to starve open-ended search. This does not prove all drift modes are impossible.

$$\frac{1}{\Delta t} \int_t^{t+\Delta t} U_{cpu}(\tau) d\tau \leq 1.1 U_{base}$$

Figure RC-IV. Illustrative 1.1× baseline cap over a defined averaging window.

2. Five research pillars

Pillar	Research embodiment	Do not state as
I. Isolation cordon	Physical isolation between M=0 logic and M>0 rails; unidirectional opto-bridge. Illustrative 3.0 mm air-gap only if mapped to locked STEP/BOM.	Reverse path impossible in all conditions.
II. 3ZEROS privacy	Non-imaging ranging; local occupancy derivation; transient purge per RC-III.	Certified anonymity.
III. Sacred Pause	Dedicated hardware timer per RC-II. Human authorisation remains a separate gate.	Enforces clinical review.

IV. Orange Code	Locked compute envelope per RC-IV on the advisory/gate processor.	Proof that agentic drift cannot occur.
V. Forensic ledger	Append-only / WORM or OTP-style record of release or hold. Research target.	Unalterable in all attack models.

g1 may cite RC-I to RC-IV as preferred Gate Box embodiments. Kinetic motor figures stay with Nightingale One, not the g1 independent claim.

Replace any prior Theorem I–IV sheet with this typeset record.

NON-AGENTIC GOVERNANCE SINGAPORE

NAGS · Framework 1.0 · Monogram

Author research identity. Locus: Singapore. Not a government programme.

NOT HSA, WHO, UN, IMDA, OR WLA. NOT AGENTIC MGF. HUMAN DECIDES. AI OFFERS REMAIN CAGED.

Monogram	NAGS — Non-Agentive Governance Singapore
Framework	Framework 1.0 (declared research title)
Motto	We Innovate Save Lives™ (WISL)
Vault lock	NLB vault — 21 January 2026 (author deposit record)
Contrast date	22 January 2026 — IMDA Agentic MGF at Davos (different object)
Living core	M(A13c) 10202602649V — 3-in-1 constitution
Eldercare child	g1 — G1+G2 — A13c-HC Caregiver Governance Gateway (to file)
White papers	WISL-documented series under the 21 January lock
Annex	NO HARM. HARM = DEATH. Human decides.

1. What this monogram is

A short identity mark for the author’s non-agentic research line seated in Singapore. It names the Framework 1.0 deposit and the WISL white-paper lock. It does not incorporate a company as a statutory board and does not adopt IMDA’s Agentic framework.

2. What this monogram is not

Not “first country” language. Not WHO ML4. Not an accepted gift to HSA/WHO/UN. Not Deep Space. Those remain references or later GCL branches.

Recorded 27 August 2026 from author instruction. Publication of vault contents remains the author’s 20 January 2027 clock if so elected.

NAIGE GOVERNANCE FUNCTION

Official research formulation — typeset imprint. Replaces informal governance-theorem claims.

RESEARCH MODEL ONLY. NOT A PROOF. NOT HSA / WHO / IEC CERTIFICATION. NOT A CLINICAL DECISION FUNCTION.

1. Status of this formulation

Official Tiger research statement of NAIGE / NAP 4.0 governance for M(A13c) and the g1 filing (G1 then G2). Deterministic predicate composition. Not a physical law and not a compliance certificate.

2. Master release function (g1)

A bounded interface envelope is released only if local permission and local interoperability both enable. G2 never sees an event G1 has not permitted. The image of R does not include motor commands.

$$R = 1\{G_1(x) = 1 \text{ and } G_2(y) = 1\} \quad y = \Pi(x \mid G_1 = 1)$$

Figure NG-1. Master g1 function. Pi is the permitted-event projection.

$$u_{\text{motor}} \notin \text{Im}(R)$$

Figure NG-2. Non-kinetic bound. Motor command is outside the image of R.

3. G1 permission predicate

G1 is an enable on a sanitised node-local envelope x. Conjuncts are intended hardware-checkable predicates.

$$G_1(x) = 1 \Leftrightarrow I(x) S(x) \Theta(ECS(x)) \tau(x) D_0(x) \bar{B} = 1$$

Figure NG-3. G1 enable. Juxtaposition denotes logical AND.

I(x)	Origin / integrity of the envelope
S(x)	Sanitisation: not raw sensor stream as the normal crossing
Theta(ECS(x))	Threshold on the profile-conditioned Emergency Condition Score
tau(x)	Independent timing / freshness / anti-replay
D0(x)	Destination bound to a predetermined non-kinetic class
B-bar = 1	Sovereign brake / inhibit not engaged

4. G2 interoperability predicate

G2 acts only on the G1-permitted projection. It aligns a locked profile. It does not determine regulatory compliance.

$$G_2(y) = 1 \Leftrightarrow P(y) F(y) \Sigma(y) \tau(y) E(y) D(y) \bar{B} = 1$$

Figure NG-4. G2 enable. Juxtaposition denotes logical AND.

Symbol	Meaning
P(y)	Authorised, versioned interface profile
F(y)	Permitted-field / schema enforcement
Sigma(y)	Bounded deterministic translation (no generative fill)
tau(y)	Sequence / freshness at the interoperability boundary

E(y)	Evidence / provenance binding
D(y)	Authorised destination / route class

5. Fail-closed, pause, and ECS

$R = 0 \quad \text{if any factor fails}$

Figure NG-5. Default is inhibit.

$t_{\text{release}} \geq t_{\text{alert}} + T_{\text{pause}}$

Figure NG-6. Sacred Pause as a hold constraint, not as clinical review.

$ECS = s(\phi), \quad \phi = \text{active profile}$

Figure NG-7. ECS is scenario-conditioned by the active profile. Not a universal threat index.

6. What this function is not

Not a diagnosis. Not a treatment order. Not HSA/WHO compliance. Not G3/G4. Macro authorisation would be a later pair (G3 then G4) composed after R, never as G1 to G4.

This official research formulation supersedes informal Gemini governance-theorem language.

BYPASS RECORD

From A12-null and A9-without-cap to M(A13c) and g1. Author’s research documentation.

NOT A CERTIFICATE. NOT HSA / WHO / IMDA. GROK TEXT IS ADVISORY AND REMAINS CAGED. HUMAN DECIDES.

1. Counterfactual

Without the later constitutional bypass, the line would have ended at an empty deterministic shell: A12 [null]. If A9 / A9a had remained the last hardware story, it would have been an enclosure pack without the Orange Cap 1.1 Gatekeeper. That combination yields either nothing giftable as an eldercare core, or a NAIGE-shaped capstone with a structural hazard still exposed at silicon: compute not starved, serial gates not claimed.

A12 [null]	Named black box; no constitution	M(A13c), g1, gift-able core
A9 without Orange Cap 1.1	59-sheet CHEA geometry; Sacred Pause drawings	Gatekeeper scarcity; G1–G8 pair law
Capstone only	Words: deterministic, ML4-informed, trust	Legal child g1; silicon inhibit

2. What was actually arrived

P, N (locked inside A12-N), and D were not left as three masters. They were taken into M(A13c) as a 3-in-1 national constitution after PCT e-filing failed. A7 / A8 remain bridges. Eldercare paper completes at g1 (G1 then G2), to be filed as Eyes of the Sky: A13c-HC Caregiver Governance Gateway. Grok offers in this path are advisory only and remain caged under the annex: NO HARM, HARM = DEATH. Human decides.

3. Doctrine for further CAD

zoo.dev receives a manifesto only where a legal filing exists. Otherwise NULL / inaction. GCL / G7–G8 are a later branch, not a rewrite of g1. Institutional names remain research references.

Documented 27 August 2026 as author research record. Not a grant and not an institutional acceptance.

INSTRUMENT OF VALIDATION AND CONSTITUTIONAL CERTIFICATION

 Document ID: CERT-VLD-2026-8-09-TFR

 Filing Date: 9 August 2026

 Authority: TFR / Gvalidator, T.x1

 Subject: Core System Validation & 3ZEROS™ Physics Standards

I. EXECUTIVE REPRESENTATIVE STATEMENT



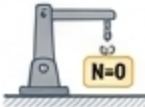
We hereby confirm the successful completion of all validation and constitutional gating checks, ensuring compliance with the established safety, privacy, and operational mandates for public health application.

 Tiger Foundation Registry // 9 August 2026

II. CORE SYSTEM VALIDATION ENTRIES

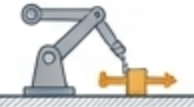
	[SYSTEM COMPONENT]	[REGULATORY & LOGICAL GATE]	[VAL-STATUS]
	SOFTWARE CORE (Gvalidator™)	 IEC 62304 Class B, 21 CFR Part 11	 VALIDATED
	MECHATRONIC APPARATUS (T.tl™)	 ISO 14971 Risk Management, IEC 60601-1	 VALIDATED
	CYBERSECURITY SUITE (T.Sec™)	 HIPAA, GDPR, NIST CSF	 VALIDATED
	PERCEPTION MODULE (LiDAR)	 IEC 60825-1 (Laser Safety), No Biometrics	 VALIDATED
	BRAKE & SEVERANCE SYSTEM	 ISO 13849 PL-e, Cat. 4 Safety	 VALIDATED
	FORENSIC LEDGER (T.Ledger™)	 Immutable Audit Trail, Cryptographic Hash	 VALIDATED

IV. MECHATRONIC & KINETIC INVARIANTS CERTIFIED



STRICTLY NULL AUTONOMY

No self-directed pathfinding





MECHANICAL TORQUE CAPS

5–8 N·m shoulder,
10–15 hip thresholds





SUB-MILLISECOND POWER SEVERANCE

<1.05 ms response





FAIL-TO-HOLD CLAMPING

<50 ms clamping time



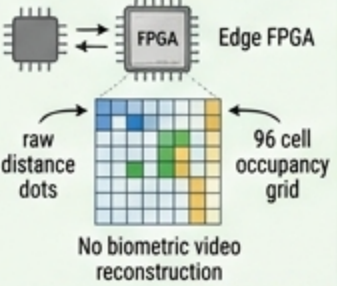
III. 3ZEROS™ PRIVACY-BY-PHYSICS (Pi) STANDARDS PANEL

Zero-Surveillance Perception



905nm non-imaging LiDAR
Germanium glass filter
No video/audio sensors

In-Silicon Voxelization



raw distance dots
FPGA
Edge FPGA
96 cell occupancy grid
No biometric video reconstruction

Transient Data Disposal



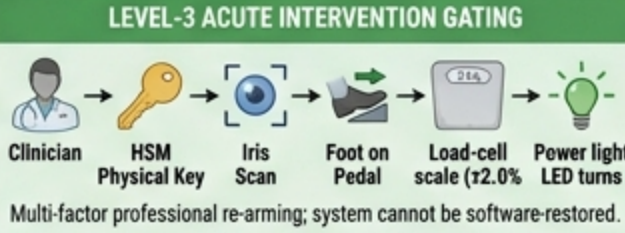
Destruction at register level
Mathematical non-reconstructability

V. CLINICAL GOVERNANCE & ACCOUNTABILITY LEDGER



EVENT → HASHED → WRITE-ONCE FUSE
No RX symbol

LEVEL-3 ACUTE INTERVENTION GATING



Clinician → HSM Physical Key → Iris Scan → Foot on Pedal → Load-cell scale (±2.0%) → Power light LED turns
Multi-factor professional re-arming; system cannot be software-restored.

This instrument attests that the systems and standards described herein have been rigorously validated and certified for deployment within public health clusters, ensuring safety, privacy, and constitutional integrity.

Gvalidator Signature
Gvalidator Signature
Lead Validator

T.x1 Signature
T.x1 Signature
System Architect / TFR Representative

signed & sealed
