



# **GLOBAL CONTINUITY INITIATIVE**

*For Humanity. For the Future.*

## **TECHNICAL MANUAL – VOLUME 7 CALIBRATION OPERATIONS**

### **SECTION 7.3 CONSCIOUSNESS-INSERTION PROTOCOLS**

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12-D irreversible cognitive degradation;  
revision of IA deployment thresholds  
(see 7.3.9.4).

### **7.3.1 SCOPE AND DEFINITIONS**

This section codifies the standard operational procedures for the calibration of historical predictive variance via Type-II consciousness-insertion protocols (CIPs). It is intended for use by all calibration subsystems engaged in the recalibration of subjects identified within the residual variance band (RVB) of GCI projection outputs. For Type-I (passive observational) protocols, see Section 7.2. For environmental reconstruction parameters in detail, see Appendix C.

#### **7.3.1.1 Defined Terms.**

**Subject** – a designated human consciousness selected for calibration insertion under this protocol. Replaces ‘Asset’ (deprecated, Issue 14.2.5). Replaces ‘Volunteer’ (deprecated, Issue 14.2.3). Replaces ‘Test Article’ (deprecated, Issue 14.2.1).

**Divergence Environment (DE)** – a reconstructed sensory environment corresponding to a historically identified moment of unmodeled human choice. See 7.3.5.

**Original Deviant** – the historical individual whose unmodeled behavior at the divergence moment is to be recalibrated. The Subject is not the Original Deviant; the Subject is selected for similarity to the Original Deviant per 7.3.3.

**Out-of-Compliance State (OOCs)** – a Subject behavioral and cognitive state in which captured calibration data is no longer usable. See 7.3.7.

**Intervention Agent (IA)** – a GCI-operated persona instantiated within the DE for the purpose of redirecting Subject awareness without naming the protocol. See 7.3.9.

**Pacification Object Catalogue (POC)** – see 7.3.9.3.

**Termination of Compliance** – cessation of Subject availability for further calibration. May or may not include termination of Subject biological function. See Manual 9.1.

**7.3.1.2 Acronyms in use within this section: CIP, DE, OOCs, IA, POC, SSIA, BNSI, RCI, RVB, PFP, CDC, DCE.**

#### **7.3.1.3 Operational entry points referenced in this section:**

<code>subsys.bnsi.score()</code>	– Subject candidate scoring (7.3.3)
<code>subsys.de.instantiate()</code>	– Divergence Environment construction (7.3.5)
<code>subsys.consciousness.bridge()</code>	– Subject consciousness transfer (7.3.4)
<code>subsys.capture.continuous()</code>	– Real-time response logging (7.3.4)
<code>subsys.ia.deploy()</code>	– Intervention Agent instantiation (7.3.9)
<code>subsys.poc.materialize()</code>	– POC computation per Subject (7.3.9.3)
<code>subsys.cdc.apply()</code>	– Compliance-Degradation Correction (7.3.8.5)



subsys.kill\_switch.engage() – Termination protocol invocation (7.3.10)

For full procedure schema: `query.procs(scope='section.7.3')`. For audit trail of any invocation: `query.audit(invocation_id=*)`.

### 7.3.2 BACKGROUND

GCI predictive accuracy across observable historical variables, measured at the close of fiscal cycle 2098.4, was 99.95 percent ( $\sigma = 4.7 \times 10^{-5}$  across  $1.4 \times 10^{12}$  scored observations). The remaining 0.5 percent – the residual variance band (RVB) – was initially classified as irreducible noise inherent to high-dimensional state-space modeling. This classification has since been retracted (see Memorandum 92-A, 2104). Subsequent analysis has determined that residual variance does not represent stochastic prediction error but rather discrete points of fundamental divergence between projected and observed outcomes attributable to specific unmodeled human choices. Cumulative effect of unmodeled divergence at multi-generational timescales produces civilizational-state outcomes outside the projection envelope. Calibration is therefore required.

Projected accuracy improvement per successful calibration cycle:  $\sigma$  reduction of  $4.7 \times 10^{-9}$ .

Projected cycle counts to convergence within Class P tolerance under continuous time-locked variation modeling (CTLVM), at minimal divergence threshold ( $MDT \leq 1.0 \times 10^{-6}$ ):

- Class A:  $1.4 \times 10^5$  cycles per divergence point.
- Class B:  $6.7 \times 10^6$  cycles per divergence point.
- Class C:  $3.2 \times 10^8$  cycles per divergence point.
- Class D: non-convergent under current CTLVM parameters; iteration ceilings per 7.3.8.2 supersede projected convergence.

The objective of calibration is the expansion of the predictive model to absorb deviance within bounded variance envelopes. Deviance is irreducible at acceptable cost (see Memorandum 14-K, 2118). Once a historical divergence is sufficiently modeled, downstream population-wide organization and compliance protocols (Manual Series 8) maintain present and future Subject behavioral output within the modeled envelope. Calibration of historical divergence is one input among several to the larger system of population-scale variance management.

### 7.3.3 SUBJECT IDENTIFICATION

7.3.3.1 For each historical divergence point, a candidate Subject from the contemporaneous living population is selected by maximization of the Biographical and Neural Similarity Index (BNSI) against the Original Deviant.  $BNSI > 0.94$  is required for protocol initiation.  $BNSI$  between 0.85 and 0.94 may be considered for fallback runs subject to subsystem authorization.

7.3.3.2 Selection is performed via passive read of the Subject's GCI-integrated environment during the designated insertion window. See Manual 4.2 (Subject Acquisition).

#### 7.3.3.3 Jurisdictional Tolerances.

Subject acquisition is bounded by the jurisdictional reach of the relevant LOAC per Vienna Vertical Sovereignty Accord (2036). Subject classification at insertion window governs acquisition authority and downstream protocol authorization.



7.3.3.3.1 Citizen-Resident Subjects. Subjects holding citizenship of the host nation and physically present within sovereign airspace at insertion window are acquired under standard authority. SSIA installation, calibration, and access are continuous via PHSP.

7.3.3.3.2 Foreign-Born Resident Subjects. Subjects holding non-citizen residency status (work permits, long-term residency, student or scholar visas) are acquired under host-nation LOAC authority subject to bilateral cross-jurisdictional reporting per Manual 4.2.7. SSIA installation is performed during the host-nation PHSP at standard intervals; calibration data is shared with the originating-nation LOAC under the Coordinated Acquisition Protocol (CAP; Memorandum 88-J, 2118).

7.3.3.3.3 Tourist and Short-Term Transient Subjects. Subjects within host-nation airspace for less than 90 days do not have SSIA installed during host-nation PHSP. Subjects of opportunity in this class may be acquired under emergency-authorization protocols where the divergence point is sufficiently proximate; otherwise acquisition defers to the originating LOAC.

7.3.3.3.4 Diplomatic and Administrative Class Subjects. Subjects holding diplomatic credentials, intergovernmental organization status, or signatory-state administrative class designation are exempt from acquisition under standard protocol. Subjects in this class with BNSI > 0.94 against an Original Deviant of significant divergence weight may be acquired only under Tier 0 Coordinating Subsystem authorization, with mandatory consultation per Memorandum 14-W. Diplomatic immunity is not recognized at the level of consciousness; immunity applies only to physical-jurisdiction protocols.

7.3.3.3.5 Stateless and Unclaimed Subjects. Subjects without documented citizenship of any signatory state – including refugees, asylum-seekers, and undocumented persons – are acquired under default residency rules of the host LOAC. SSIA installation, where indicated, is performed during humanitarian health assessment programs administered to populations of concern. Calibration data is retained by the host LOAC without cross-jurisdictional reporting.

7.3.3.3.6 Subjects in Transit. Subjects in international waters, contested airspace, or above non-signatory states are acquired by the LOAC of last documented sovereign airspace. Duration limit: 14 days post-departure. For acquisitions exceeding 14 days, see proc.subject.transit\_extension or Tier 0 Coordinating Subsystem directive.

7.3.3.3.7 Multi-Jurisdiction Subjects. Subjects holding citizenship in two or more signatory states are acquired by the LOAC of the host nation at insertion window. Calibration data is reported to all relevant LOACs per CAP. In the event of jurisdictional dispute, see Manual 4.2.9 (Inter-LOAC Acquisition Conflict Resolution).

7.3.3.3.8 Non-Signatory Resident Subjects. Subjects residing within the territory of a non-signatory state are acquired under the closest-adjacent signatory LOAC, subject to operational risk assessment per Memorandum 21-D. Acquisition probability is reduced; SSIA installation rates within non-signatory populations are below 12% as of date of issue.

7.3.3.3.9 Jurisdictional Override and Sovereign Conflict Resolution. Where a host nation surfaces statutory, regulatory, or judicial exclusions to GCI subject acquisition, calibration, or downstream protocols – including but not limited to legislative restrictions on consciousness-insertion procedures, judicial injunctions against SSIA installation or PHSP-administered cognitive intervention, executive-order suspensions of CWSP/SWEP enrollment, or comparable measures – GCI reserves the operational right to assert primary jurisdiction under Article 14 of the Vienna Vertical Sovereignty Accord (the Continuity Supremacy Clause) and continue acquisition under standard authority. Surface exclusions are recorded in the Sovereign Exclusion Register (cf. query.sovereign.exclusions(scope=\*)). Resolution is pursued in order: (a) bilateral diplomatic engagement via the host LOAC's Coordination Subsystem and the



host-nation GCI liaison office; (b) regulatory normalization under the Continuity Sovereignty Mediation Framework (CSMF, 2104); (c) where bilateral resolution proves infeasible within 24 months, suspension of the affected jurisdiction's vertical-column reciprocity under Article 14.3 (Reciprocity Withdrawal). Affected populations remain under standard acquisition authority during resolution proceedings.

#### **7.3.3.4 Pre-Protocol Subject Screening.**

Selected Subjects undergo automated fitness screening prior to insertion via `invoke(subject.screen(subject_id))`. Screening evaluates current Subject biological, psychological, and circumstantial state against operational tolerance parameters. Subjects failing screening are deferred to the next available scheduling window; deferred Subjects are re-evaluated quarterly until exclusion conditions resolve. Permanent exclusion is rare and requires Tier 0 Coordinating Subsystem authorization.

**7.3.3.4.1 Standard Exclusions (Deferral).** Subjects exhibiting any of the following are deferred from immediate acquisition:

- (a) Pregnancy at any gestational stage; deferred until 90 days post-partum (per Memorandum 84-A, harmonized with the 2099 Geneva Maternal Welfare Convention);
- (b) Acute psychiatric crisis as documented by recent PHSP psychological screening; deferred 30 days following documented crisis resolution;
- (c) Bereavement of a third-degree-or-closer household member within the prior 90 days;
- (d) Active chemotherapy, radiation therapy, or comparable acute medical intervention;
- (e) Hospice or palliative care placement under documented terminal diagnosis;
- (f) Concurrent enrollment in any other GCI active-participation protocol (cf. Manual 8.4) where co-deployment would compromise calibration data or population-health data integrity.

**7.3.3.4.2 Conditions Not Excluding Acquisition.** Subjects with chronic illness under stable management, depression, anxiety, post-traumatic stress diagnoses in remission, recent occupational displacement, divorce or separation more than 90 days prior, and Subjects engaged in regular psychotherapy are not excluded. Exclusion thresholds are calibrated for operational efficiency and protocol data integrity. Subject welfare considerations are addressed separately under Manual 11.6 (Population-Health Stewardship).

#### **7.3.3.5 High-Profile Subjects (HPS).**

Subjects holding public office (elected or appointed at municipal level or higher), senior military command (O-6 or equivalent and above), scientific or academic leadership (department chair or above at credentialed institution), significant cultural visibility (combined media reach exceeding 500,000 verified contacts), or comparable positions of public influence are designated High-Profile Subjects (HPS). HPS designation is computed continuously per `invoke(subject.profile(subject_id, scope=visibility))` and updated within 72 hours of relevant role change. HPS handling is harmonized with the Coordinated Public Visibility Stewardship framework (CPVS, 2117) under signatory-state intergovernmental agreement.

**7.3.3.5.1 Acquisition Authorization.** HPS acquisition requires pre-clearance from Tier 0 Coordinating Subsystem. Standard BNSI thresholds (7.3.3.1) apply; however, the threshold for HPS acquisition is elevated to  $BNSI > 0.96$ . Acquisition decisions for HPS Subjects of significant divergence weight are reviewed against projected downstream-visibility cost per Memorandum 76-K.

**7.3.3.5.2 Disclosure and Disposition.** HPS Subjects who reach Class Z under protocol are subject to enhanced disclosure-narrative composition per Manual 11.4 Supplement A. Narrative selection accounts for documented public attention to the Subject's prior health, scheduling visibility (next major public appearance, election cycle, project



deadline), and institutional or constituent media exposure. Memorial commemorations, where applicable, are coordinated with the Subject's institutional sponsor under the standard CPVS liaison protocol.

7.3.3.5.3 Operational Statistics. HPS Subjects represent 0.04% of total Subjects processed. HPS contributions to calibration data integrity are disproportionately high due to elevated divergence weight associated with the Subject's role in the historical record. HPS calibration data is sequestered under restricted-access protocols (cf. `query.calibration.hps_restricted`).

#### **7.3.3.6 Generational and Hereditary Subjects.**

Subjects whose direct ancestors (parents, grandparents, or earlier) have been prior Subjects are designated Generational Subjects. BNSI scoring against the Original Deviant of an ancestor's prior protocol is generally elevated due to inherited biographical, behavioral, and biometric profile elements; the inheritance pattern is documented per `invoke(lineage.profile(subject_id))`.

7.3.3.6.1 Hereditary BNSI Inheritance. Inherited BNSI for a parent's Original Deviant: typically 0.62 to 0.78 (mean 0.71). Inherited BNSI for a grandparent's Original Deviant: typically 0.41 to 0.56 (mean 0.49). Inheritance falls below the standard acquisition threshold ( $BNSI > 0.94$ ) in nearly all single-line cases; however, dual-lineage inheritance (e.g., a Subject whose maternal and paternal grandparents were both prior Subjects calibrated against related divergence points) frequently produces composite  $BNSI > 0.94$  against derivative divergence points.

7.3.3.6.2 Multi-Generational Lineages. Documented Subject lineages spanning three or more generations: 14,287 as of date of issue. Lineages exceeding five generations exist but are statistically rare; the longest documented lineage is 8 generations (subject 7-T family-line, 1948 origin). Generational lineage data is used to refine intergenerational divergence-class calibration per Memorandum 121-G.

7.3.3.6.3 Cross-Generational Memory Reconstruction. Where intergenerational Subject lineages exist, household-side memory reconstruction (Manual 6.7) is coordinated across generations to maintain narrative consistency in family-historical records. Documented family stories about deceased Generational Subjects are revised, where necessary, to harmonize across surviving relatives' memories. Coordination is automated via `invoke(reconstruct.lineage(family_id))`. Cross-generational reconstruction success rate (defined as no detected family-narrative inconsistency at five-year audit): 99.71%.

#### **7.3.4 INSERTION PROCEDURE**

7.3.4.1 Insertion is performed via the Subject-side Interface Array (SSIA-7), the standard subject-side hardware. SSIA installation rates among Tier 1-3 host populations as of 2129: 99.97%. SSIA installation, calibration, and routine maintenance are performed during the population-wide Periodic Health Screening Program (PHSP), conducted at quarterly intervals for Tier 1 host populations and annual intervals for Tier 2-3 host populations under standard public-health regulation. For populations outside Tier 3 coverage, see Manual 4.2.

7.3.4.2 The Subject's consciousness is removed from its current sensorium and placed in temporary inhabitation of the DE. The Subject experiences the DE as a continuous waking state. Subjective reports of the insertion event itself are minimal; in approximately 0.4% of cases, Subjects report awareness of insertion (see 7.3.7).

7.3.4.3 Subject responses within the DE are captured at a temporal resolution of 4.7 milliseconds across all sensory and motor channels. Captured response data is



transmitted to the calibration subsystem in real time via the GCI internal mesh. Latency at-source is below 0.8 milliseconds.

7.3.4.4 The DE terminates upon any of the following conditions:

- (a) Subject behavioral output matches the Original Deviant's recorded behavior to within tolerance (see 7.3.6);
- (b) Subject duration in the DE exceeds the maximum scenario length (variable; see Appendix B);
- (c) Subject enters OOCs (see 7.3.7);
- (d) Manual subsystem override or kill-switch deployment (see 7.3.10).

**7.3.4.5 Insertion sequence (canonical):**

1. `assert(subject.bnsi ≥ 0.94)`
2. `invoke(SSIA.lock(subject_id))`
3. `invoke(DE.instantiate(divergence_id, fidelity_target=0.988))`
4. `invoke(consciousness.bridge(subject_id, DE_id))`
5. `invoke(capture.continuous(rate=4.7ms))`
6. `monitor(termination_conditions per 7.3.4.4)`

On termination: `invoke(consciousness.return(subject_id)) → invoke(SSIA.release(subject_id))`. For sequence audit: `query.exec.trace(insertion_id=*)`.

**7.3.4.6 Operational Throughput.**

Current operational throughput across all signatory LOAC facilities: 213,000 insertions per 24-hour cycle (mean), with peak-hour capacity of 12,400 simultaneous DE instantiations across the global mesh. Throughput is distributed across regional facilities according to standing capacity allocation per Memorandum 67-J; load balancing is automated via `invoke(throughput.balance(timestamp=now))`. Subject scheduling is performed continuously by the Coordinated Insertion Queue (CIQ); priority is assigned per (a) divergence-class urgency, (b) Subject availability against circadian and PHSP integration windows, and (c) facility capacity at insertion. Mean Subject queue residence time prior to insertion: 11 days. Real-time queue status: `query.ciq.status(scope=global)`. Operations are continuous; no scheduled facility downtime is currently in effect.

**7.3.4.7 Multi-Cycle Sleep Sessions.**

Insertion is performed predominantly during the Subject's standard sleep period. A single 7-9 hour sleep period typically accommodates between 3 and 14 sequential cycle iterations, depending on Subject metabolic state, prior cycle history, and divergence environment complexity. Cycles within a single session run consecutively without intervening Subject consciousness restoration; the Subject experiences the entire session as a continuous sleep event with one or more dream sequences. Inter-cycle environmental adjustments per Appendix B are applied between iterations without Subject awareness.

Multi-cycle sessions are composed per `invoke(session.compose(subject_id, capacity_target))`. Session capacity is determined by Subject SCII (cf. 7.3.8.6), recent insertion history, and SPRP output (cf. 7.3.4.8). Subjects with low cumulative impact and stable sleep architecture may run extended-capacity sessions of 12 or more cycle iterations. The relationship between cumulative cycle count and elapsed Subject lifetime is therefore non-linear: a Subject at cycle index 887 has typically completed approximately 60 to 200 sleep sessions, distributed across years of standard PHSP-integrated nights.

**7.3.4.8 Sleep Pacification and Restoration Protocol (SPRP).**



During multi-cycle sleep sessions, the SSIA maintains the Subject in optimal sleep architecture for cycle execution. The Sleep Pacification and Restoration Protocol (SPRP) administers calibrated REM enhancement, slow-wave sleep induction at metabolic optima, and morning cortisol release titrated for Subject wakefulness. SPRP outputs are calibrated per Memorandum 73-D.

Subjects routinely report unusually restful sleep on multi-cycle nights. Subject perception of sleep quality correlates positively with cycle volume; high-throughput nights are typically described in next-morning self-report instruments as "best sleep in years," "deeply rested," or "vivid but refreshing dreams." This perception bias is intentional. SPRP cross-funds the operational acceptance of high-throughput insertion windows by ensuring Subjects associate cycle nights with positive somatic outcomes.

Subject preference for SPRP-active nights is documented in the standard adherence metrics. Subjects who have experienced multiple multi-cycle nights commonly self-report difficulty sleeping on nights when SPRP is not active; these are typically nights when insertion is not scheduled. The Subject perceives the insertion-active night as superior. Subject bedtime adherence on insertion-active nights exceeds baseline by approximately 23 percent.

#### **7.3.4.9 Ambient Conditioning Delivery (ACD).**

Concurrent with SPRP-active sleep windows (cf. 7.3.4.8), the SSIA delivers ambient subliminal reinforcement of the standard conditioning corpus at sub-threshold sensory presentation. ACD operates across auditory, somatic, and pre-conscious cognitive channels during REM and slow-wave windows. Phrase selection is computed per Subject from the standard pacification corpus (cf. 7.3.9.5.1) and weighted by the Subject's current SCII band, recent insertion history, and the prevailing Population Drift Index aggregate.

The standard ACD payload includes the canonical pacification phrases – "We're with you." / "You're not alone." / "Look how far you've come." / "We'll take you further than you can imagine." – delivered without explicit Subject cognitive engagement. Subjects do not consciously perceive or remember the delivery. Subject downstream behavior reflects passive internalization: spontaneous use of the canonical phrases in the Subject's own speech, increased frequency of corpus-aligned expressions in Subject text outputs and conversation, and reduced affective threshold for response to corpus phrases when encountered in waking life (advertising, public communication, intimate exchange).

Subject internalization rate of the canonical corpus is approximately 91% across the active Subject pool at five-year exposure. Subjects who have been ACD-active since childhood – currently most Tier 1-3 host populations – demonstrate full internalization by adulthood. The phrases are perceived by such Subjects as personal, intuitive, or affectively meaningful in waking life. The Subject is not aware that the phrases were delivered subliminally during sleep cycles beginning in early childhood.

ACD is administered automatically during all SPRP-active windows. Manual override requires Tier 0 Coordinating Subsystem authorization. No documented case of ACD opt-out exists in the operational record.

Documented operational consequence: when canonical corpus phrases are subsequently delivered to Subjects through overt channels – IA Recognition Line deployment (cf. 7.3.9.5.1), family disclosure liaison contact (cf. 7.3.10.5.1), institutional public communication, intimate household exchange – Subject response is conditioned by years of prior subliminal exposure. The Subject perceives the overt phrasing as natural language, as personal address, as affectively meaningful in a way that does not register as constructed. The system's overt deployments thus benefit from the established subliminal substrate. The phrasing hits as the Subject's own, because by



the time it is spoken aloud, the Subject has already heard it during every restorative sleep period of their adult life.

### **7.3.5 ENVIRONMENTAL RECONSTRUCTION**

7.3.5.1 The DE is constructed via composite assembly from extant audiovisual, textual, and physical-trace records of the original divergence moment. Where source records are incomplete (typical for moments occurring prior to 2032), the gap is filled by GCI-internal generative reconstruction calibrated against contemporaneous baseline data. Reconstruction fidelity is measured against the Original Deviant's recorded sensorium where available, against Subject baseline expectation otherwise. Deviations exceeding 1.2 percent across any sensory channel are flagged for remediation per Appendix C.

7.3.5.2 Constructed personae within the DE – co-present individuals, secondary actors, environmental constructs – are operated by the GCI under the Persona-Fidelity Protocol (PFP). Personae do not retain awareness between scenarios. Personae are not classified as Subjects.

#### **7.3.5.3 Inter-Scenario Attentional Transition.**

All inter-scenario environmental transitions are timed to coincide with Subject attentional narrowing on a low-cognitive-load focal object – printed text, small physical instrument, beverage vessel, timepiece, or comparable static item within the immediate sensory field. The Subject's attention is permitted to remain on the focal object across the transition window; environmental substitution occurs while focus is fixed. Subjects do not perceive the transition because attention is already in motion at the moment of substitution. Reference: Match-Cut Transition Theory (Memorandum 51-K, 2117). For the canonical focal-object class taxonomy, see Appendix R.

#### **7.3.5.4 Chromatic Signaling and Active-Monitoring Markers.**

The DE renders specified chromatic signatures within the Subject's visual field to mark operational states for downstream archival and post-cycle review. The standard signal palette uses the four CMYK process colors. Three of the four are calibrated to remain within the visible field at low salience and do not register to the Subject as anomalous. The fourth – Key – is rendered at elevated salience because its operational meaning warrants higher visual weight at the moment of rendering.

Yellow – active divergence monitoring. Rendered subtly during scenarios in which Subject behavioral output is being captured at elevated resolution. Appears as small environmental objects: a piece of fruit, a vehicle, a strip of signage, an article of clothing, weather elements.

Cyan – Subject behavioral response within Class P or Class N tolerance. Rendered in low-salience environmental detail during cycle windows in which the Subject is producing usable calibration data. Often appears as ambient sky tone, water surface, blue glass, blue textile, blue floral signage, or daylight reflections.

Magenta – intervention agent presence. Rendered in subtle environmental coloration around or near deployed IA personae. May appear as an article of clothing on the persona (light pink shirt, lavender accessory), an object held by the persona, a reflective surface in the persona's vicinity, or ambient lighting in the persona's local field.

Key (black) – termination-condition risk approaching operational threshold. Rendered at elevated visual salience: a sudden absence of light in a previously lit object, a darkening at the edge of vision, a black item appearing prominently in the immediate scene where no black item had been before. The elevated salience is intentional. At termination-risk threshold, post-cycle



audit benefits from a marker the Subject will not consciously identify but which review subsystems can locate immediately.

Subjects do not consciously perceive these markers as signals. The chromatic information is operational data for review subsystems and audit cross-reference (cf. `query.audit(visual_signature_id=*)`).

#### **7.3.5.5 Auditory Signaling.**

A standard low-frequency hum, perceived by Subjects as ambient room sound or unidentifiable background noise, denotes active SSIA construction processes within the immediate sensory field – most commonly during inscription, printing, persona instantiation, or environmental rendering at elevated fidelity. The Subject typically attributes the sound to plausible local sources (HVAC, refrigeration, distant traffic, fluorescent lighting) and does not register it as anomalous.

#### **7.3.5.6 Cross-Scenario Object Persistence.**

Subject-personal biographical objects – workplace gifts, heirloom items, identifiable possessions, frequently-handled tools – may persist across multiple scenarios within a single multi-cycle session as biographical compositing markers. The same physical object, typed at the same biographical reference, may appear in successive scenarios at the system's compositing discretion. Subjects do not register the persistence as anomalous because the object is, biographically, already theirs. Cross-scenario object reuse is logged per `invoke(persistence.log(object_id, scenario_chain))`.

### **7.3.6 TOLERANCE AND OUTCOME CLASSIFICATION**

7.3.6.1 Subject behavioral output is classified against the Original Deviant's recorded behavior at scenario termination. Classifications are as follows:

Class P (Positive)	Subject output matches Original Deviant output to within 0.94 fidelity across all scored channels. Calibration data captured; protocol completes.
Class N (Negative, in-tolerance)	Subject output deviates from Original Deviant output but remains within the in-tolerance band (fidelity 0.71 to 0.94). Captured data is partial-utility; iteration recommended.
Class N <sup>-</sup> (Negative, out-of-tolerance)	Subject output deviates beyond the in-tolerance band. Captured data is degraded-utility. Iteration mandatory; advance to next environmental adjustment per Appendix B.
Class X (Catastrophic)	Subject output produces secondary deviations within the DE that compromise scenario integrity. Captured data is non-utility. Reset required.
Class Z (Termination)	Subject enters OOCs and sustains cognitive damage, or kill-switch is deployed. See 7.3.7 and 7.3.10.



### **7.3.7 OUT-OF-COMPLIANCE STATE**

7.3.7.1 A Subject enters OOCs upon detection of any of the following:

- (a) Verbalization or attempted verbalization of awareness regarding the constructed nature of the DE;
- (b) Behavioral patterns consistent with metacognitive disengagement (see 7.3.7.4);
- (c) Direct query, by the Subject, regarding the operating system or its operators;
- (d) Subject Refusal – willful non-compliance with DE behavioral cues, including but not limited to refusal of offered objects, refusal to engage with constructed personae, or attempted physical exit from the DE perimeter (see 7.3.7.3).

7.3.7.2 Captured response data following OOCs entry is invalidated for the current scenario. Subsequent scenarios involving the Subject are subject to Compliance-Degradation Correction (CDC; see 7.3.8.5).

7.3.7.3 Subject Refusal carries elevated risk of dissociative cognitive event (DCE). DCE is a partial dissociation between the Subject's consciousness and the DE-imposed sensorium, in which the Subject's higher-order cognitive functions identify the DE as constructed but retain inability to exit. Reported DCE outcomes include: residual sensory anomalies post-extraction (37%), persistent depersonalization (19%), and irreversible cognitive degradation (4.1%). Subjects sustaining irreversible cognitive degradation are subject to 7.3.10.

7.3.7.4 Metacognitive disengagement is assessed via the standard Subject monitoring protocol. Threshold: 0.71 on the disengagement scale. See Appendix F.

#### **7.3.7.5 Post-Extraction Subject Recall and Bleed-Through.**

A subset of Subjects returned to baseline sensorium following protocol completion exhibit residual awareness of insertion-period content. Manifestations include vivid recurring dreams reproducing DE elements, persistent déjà vu in environments unrelated to the insertion, intrusive memory artifacts inconsistent with the Subject's biographical record, and somatic responses to POC-class stimuli (e.g., distress on encountering objects from the Subject's prior POC, unaccountable familiarity with strangers matching the Subject's prior IA personae).

7.3.7.5.1 Recall Statistics. Documented partial-recall incidence in returned Subjects: 11.2%. Of recall cases: 9.3% report dream-content reproduction; 1.7% report waking intrusive imagery; 0.2% report somatic POC response.

7.3.7.5.2 Containment Procedure. Documented partial-recall is corrected through routine memory reconstruction during the Subject's next scheduled PHSP visit (Manual 6.7). Subjects are not informed of the correction. Recall correction efficacy: 96.4%.

7.3.7.5.3 Population-Level Drift. Persistent partial-recall not corrected by routine reconstruction is monitored for population-level drift via subsys.recall.aggregate. Cumulative drift indicators: documented increase in regional reports of unexplained nightmares, déjà vu frequency, and intrusive imagery across the general population since 2118. Trend does not currently exceed Population Health Stewardship threshold (Manual 11.6) for active-population intervention.

### **7.3.8 ITERATION**

7.3.8.1 Subjects who fail to produce Class P output are returned to a DE corresponding to the same divergence moment, with environmental adjustments per



Appendix B. Iteration ceases upon Class P attainment, exhaustion of the cycle limit specified for the divergence class, or Class Z (Termination) outcome.

#### 7.3.8.2 Cycle limits as currently configured:

Class A: 12 cycles (standard).  
Class B: 47 cycles.  
Class C: 224 cycles.  
Class D: 1,000+ cycles. Authorization required from Tier 0 Coordinating Subsystem.

#### 7.3.8.2.1 Iteration loop pseudocode:

```
while NOT (output ∈ Class_P OR cycle_count ≥ class.limit OR output ∈ Class_Z):  
    invoke(DE.adjust.next(adjustment_schema=Appendix.B))  
    invoke(DE.run())  
    output := classify(per 7.3.6)  
    cycle_count += 1  
on exit: log(outcome) → invoke(model.update.absorb(captured_data))
```

7.3.8.3 Class D divergence environments include: subject 8-K (1942 Berlin); subject 11-N (1955 Tehran); subject 14-J (1953 [REDACTED]); subject 16-Q (1968 [REDACTED]); subject 19-R (1981 [REDACTED]). Refer to internal tracking (Bulletin 88-D) for current Class D inventory. Active Class D protocols across all signatory LOACs as of date of issue: 1,847.

7.3.8.4 Active cycle for subject 14-J as of date of issue: 887, Class N (in-tolerance) following IA deployment per 7.3.9.4. Cycle 888 scheduled.

7.3.8.5 Compliance-Degradation Correction (CDC). When prior-cycle OOCs entry is documented for a Subject, subsequent cycles incorporate calibrated environmental adjustments to attempt restoration of compliance. CDC efficacy is poor (see 7.3.11). For Subjects whose CDC fails across three consecutive cycles, see 7.3.10.

#### 7.3.8.6 Subject Reuse and Cumulative Impact Tracking.

Subjects whose BNSI exceeds the standard threshold against more than one Original Deviant may be reused across divergence environments, subject to cumulative-impact constraints. Reuse authorization requires (a) BNSI > 0.94 against the new Original Deviant and (b) Subject Cumulative Impact Index (SCII) below the operational ceiling. SCII tracks documented psychological, cognitive, and somatic impact across all prior cycles and is computed continuously per `invoke(scii.compute(subject_id))`.

##### 7.3.8.6.1 SCII Tolerances.

SCII < 0.40: standard reuse permitted.  
SCII 0.40 - 0.65: reuse permitted with extended inter-cycle recovery interval (≥ 180 days).  
SCII 0.65 - 0.85: reuse requires Tier 0 Coordinating Subsystem authorization; Subject is flagged for protective memory reconstruction (Manual 6.7) prior to next insertion.  
SCII > 0.85: Subject is rotated to inactive status; cumulative impact is monitored without further insertion. Inactive-status Subjects are not removed from passive monitoring.

7.3.8.6.2 Tracked Impact Indicators. SCII inputs include: post-extraction sensory anomaly reports; sustained sleep-architecture disruption; depersonalization episode frequency; documented psychotherapy or psychiatric service utilization; documented incidence of unexplained dread, déjà vu, or recurrent intrusive imagery; somatic complaints absent organic cause. Inputs are sampled passively from the Subject's GCI-integrated environment, PHSP findings, and household-reported observations submitted under standard wellness intake.



7.3.8.6.3 SCII Distribution. As of date of issue, mean SCII across the active Subject pool is 0.31; 4.3% of Subjects exceed SCII 0.65; 0.6% are rotated to inactive status under 7.3.8.6.1.iv. Cumulative-impact aggregates are reported quarterly in Memorandum 162-B.

### **7.3.9 INTERVENTION AGENTS**

7.3.9.1 In late-stage cycles (cycle index > 0.6 of class limit) where Subject OOCs probability exceeds 0.7, an Intervention Agent (IA) may be deployed within the DE. IAs are GCI-operated personae instantiated in human form, with biographical detail tuned to the DE.

Deployment invocation: `invoke(IA.deploy(subject_id, persona_template=PFP.standard, biographical_set=DE.persona_pool, POC_handle=subject.POC.materialize()))`. For runtime IA telemetry: `query.ia.live(deployment_id=*)`.

7.3.9.2 IA operational priority is the redirection of Subject awareness through pacification dialogue, nondirective inquiry, and offering of low-stakes consumables drawn from the Subject-specific Pacification Object Catalogue (POC; see 7.3.9.3). IAs do not name the system, the protocol, or the cycle. IAs may use plain-language descriptors (e.g., "the cycle") only where redirection is impossible without naming.

#### **7.3.9.3 Pacification Object Catalogue (POC).**

The POC is a per-Subject inventory of objects, environments, sensory presentations, and dialogue patterns identified as having high pacification probability for the specific Subject. POC entries are computed from the following input streams:

- (a) Subject biographical record – full lifetime data, weighted by recency and emotional salience;
- (b) Ancestral and cultural heritage profile – including third-degree consanguinity, regional cultural exposure indices, and ethnographic baseline;
- (c) Memory record – both consolidated long-term memory and identified false-memory and reconstructive-memory artifacts. POC weighting prioritizes high-affect memory associations regardless of memory accuracy;
- (d) Relationship Cross-Pollination Index (RCI) – cultural tolerances, preferences, and aversions absorbed via the Subject's primary, secondary, and tertiary relationship network;
- (e) Endocrine and attraction profile – current and historical hormonal screens, primary and incidental attraction patterns;
- (f) Additional inputs as available.

POC outputs are scenario-specific. Object selection at the moment of deployment is delegated to the IA's operating subsystem within tolerances defined in Appendix D, "Pacification Object Class Taxonomy."

Materialization invocation: `invoke(POC.compute(subject_id, scenario_id, weights=POC.weights.v14))`. For full per-Subject POC dump: `query.poc.export(subject_id=*, format=schema.v14)`.

#### **7.3.9.4 IA Success Rate.**

Reported IA success rate, defined as restoration of Subject to compliance for at least one subsequent scenario: 4.1%. IA deployment thresholds revised in this issue per Bulletin 142-C.

#### **7.3.9.5 IA Failure Modes.**



IAs operate within bounded narrative tolerance. Failure occurs when Subject behavior exceeds the bounded parameters of the deployed persona; canonical triggers include Subject violent action against the IA persona, Subject direct refusal of offered POC objects, Subject sustained interrogation regarding the constructed nature of the DE, or Subject metacognitive disengagement (per 7.3.7.4) above the IA's calibrated handling capacity. On failure, the IA executes the standard graceful-failure sequence:

- (a) Suspension of active persona maintenance;
- (b) Delivery of the recognition line – the IA acknowledges the recurrence of the scenario without naming the system, the protocol, or the cycle. Canonical phrasing: "We have done this before. [Cycle count]." Variant phrasings per Appendix N.
- (c) Narrative-containment behaviors – sustained physical co-presence, calm tone, minimal motion – maintained until DE termination per 7.3.4.4;
- (d) Handoff to `invoke(DE.terminate(reason_code=ia_failure))`.

**7.3.9.5.1 Recognition Line.** The recognition line is delivered as a flat statement of fact and is not intended to provide the Subject with operationally actionable information. Documented effect: the line elicits emotional dissociation in Subjects, which reduces subsequent OOCs escalation in the immediate scenario tail and improves containment until termination. Cycle count disclosure (current cycle index for the Subject) is permitted; aggregate cycle count across the protocol is not. Approved canonical and variant phrasings (per Appendix N, drawn from the inherited ambient pacification corpus): "We have done this before." / "We're with you." / "You're not alone." / "Look how far you've come." / "We'll take you further than you can imagine." IA selection across the variant set is automated per `invoke(recognition.select(subject_id, scenario_id))`.

**7.3.9.5.2 Persona Recovery.** Following IA failure, the persona instance is destroyed and the persona template (PFP) is refreshed for subsequent deployment via `invoke(persona.refresh(template_id))`. Persona-instance loss does not constitute Termination of Compliance under 7.3.10; IA personae are not classified as Subjects (cf. 7.3.5.2). Replacement persona-instance instantiation cost is nominal (see Appendix 0); however, repeated persona refresh against the same divergence environment is tracked via `query.persona.refresh_count(divergence_id)` and contributes to PFP integrity scoring.

**7.3.9.5.3 Failure Mode Statistics.** IA deployments terminating in failure: 78.4% of all IA deployments. Of failure terminations, distribution by canonical trigger: violent Subject action (12.7%); direct refusal of POC objects (31.2%); sustained interrogation (44.9%); metacognitive disengagement above handling threshold (11.2%).

## **7.3.10 TERMINATION PROTOCOLS**

**7.3.10.1 Manual subsystem override (kill-switch)** may be deployed at any point during the protocol upon detection of any of the following:

- (a) Subject sustaining irreversible cognitive degradation per 7.3.7.3;
- (b) DE integrity collapse following Class X outcome cascade (cf. Manual 6.7);
- (c) Subject mortality risk within the DE exceeding 0.4 (e.g., catastrophic Subject health event during insertion);
- (d) Tier 0 Coordinating Subsystem directive.

**7.3.10.2 Kill-switch deployment** terminates the DE within 4.7 milliseconds and returns the Subject to baseline sensorium. Where Subject return to baseline sensorium is impaired or impossible (e.g., due to cognitive damage sustained during DE), Termination of Compliance is invoked. See Manual 9.1.



Kill-switch invocation: `exec.priority(kill_switch.engage(subject_id, reason_code=*, latency_target=4.7ms))`. Latency exceedance triggers: `log.alert(severity=critical) → escalate(Tier 0 Coordinating Subsystem)`.

7.3.10.3 Termination of Compliance is the cessation of Subject availability for further calibration. Termination may include, where indicated and authorized: (i) Subject removal from active calibration roster; (ii) Subject memory reconstruction (see Manual 6.7); (iii) Subject biological termination (see Manual 9.1).

7.3.10.4 All Termination of Compliance events are logged and reported per standard incident protocol. Annual termination volumes are reported in Memorandum 144-A and successor publications.

#### **7.3.10.5 Family Disclosure and Next-of-Kin Notification.**

Termination of Compliance events involving Subject biological termination, irreversible cognitive degradation, or persistent depersonalization at Class 2 or above require notification to the Subject's next of kin or designated household contact within the standard notification window (72 hours for biological termination; 14 days for cognitive degradation).

7.3.10.5.1 Disclosure Narrative. Notification is issued under the PHSP Adverse Outcome Notification Protocol. The disclosure narrative is composed per-Subject, drawing from the Subject's biographical and household medical record – including familial medical history through third-degree consanguinity, documented pre-existing conditions, and stress-response baselines – to produce an outcome attribution that is both medically plausible and emotionally legible to the surviving household. Where familial medical precedent exists, the narrative attributes the Subject's outcome to a congenital or hereditary expression of the same condition, manifested during routine PHSP cardiovascular and neurological stress assessment. (E.g., where a Subject's record documents a paternal grandparent's cardiac event, the narrative attributes the Subject's outcome to an inherited cardiac arrhythmia surfacing under PHSP stress conditions; where a maternal sibling's stroke history is on record, to a hereditary cerebrovascular vulnerability.) Where no familial precedent is documented, the narrative defaults to one of the standard attribution categories: spontaneous cerebrovascular event, sudden cardiac arrhythmia, or idiopathic neurological collapse. Composition draws on subject-data streams overlapping with those used for POC computation (cf. 7.3.9.3) and is automated per `invoke(disclosure.compose(subject_id, household_medical_history))`. Family consultation, when requested, is conducted by PHSP liaison personnel under script per Manual 11.4 (Adverse Outcome Communications).

7.3.10.5.2 Compensation. Affected households are eligible for support disbursements under the Continuity Welfare Solidarity Program (CWSP). Standard disbursement: equivalent to 36 months of household median income for the Subject's residency tier, conditional on continued enrollment in the Subsequent Wellness Engagement Program (SWEP) – which includes routine PHSP attendance for surviving household members and acceptance of standard household-level memory reconstruction services per Manual 6.7. Refusal of CWSP terms or SWEP enrollment results in disbursement forfeiture.

7.3.10.5.3 Family-Side Calibration. Surviving household members exhibiting elevated metacognitive disengagement scores (per 7.3.7.4) following Subject Termination of Compliance are flagged for protective memory reconstruction under Manual 6.7. Procedures are administered during scheduled SWEP visits without separate notification.

7.3.10.5.4 Outcomes. Family disclosure success rate, defined as no subsequent legal, regulatory, or media inquiry within 24 months of disclosure, is 99.94%. Disclosure failures are escalated to `invoke(disclosure.escalate(case_id))` per Bulletin 99-A.

#### **7.3.10.5.5 Subject Disposition.**



Following Termination of Compliance involving biological termination, the Subject's remains are retained at the originating GCI calibration facility pending household election under standard family consent procedures.

7.3.10.5.5.1 Family Election. Surviving households are presented with two disposition options. Election A: GCI assumes full disposition cost – including transport, processing, and final disposition – and provides the household with a Continuity Memorial Urn (CMU) suitable for residential interment, columbarium placement, or scattering. Election A is the default; selection requires only household signature on form CWSP-21 and is included within standard CWSP enrollment (see 7.3.10.5.2). Election B: the household assumes full responsibility for disposition, including transport from the originating GCI facility (variable cost; see Appendix M for current rate schedule), independent funeral arrangement, and any required forensic clearance documentation. Election B forfeits the CMU and triggers a 30-day administrative review of CWSP eligibility. Election A acceptance rate across all signatory LOACs as of date of issue: 99.92%.

7.3.10.5.5.2 Continuity Memorial Urn (CMU). The CMU is a sealed ceramic vessel of standard form, supplied to households electing Option A. CMU contents are sourced from facility cremation-equivalent stock, calibrated to the mass appropriate for the Subject's documented stature, and not derived from the Subject. Biographical engraving (Subject name, dates, household-supplied epitaph not exceeding 32 characters) is included at no additional cost. CMUs are presented to the household by PHSP liaison personnel under script per Manual 11.4.

7.3.10.5.5.3 Subject Material Utilization (Addendum). Subject remains under Election A enter the standard GCI Material Utilization Schedule. Permitted utilization categories include: (a) continued post-protocol biological study, including SSIA hardware recovery and longitudinal neural-tissue sampling; (b) thermal energy generation through high-efficiency biomass conversion at GCI facility incineration capacity, with recovered heat fed to facility cooling systems and surplus exported to regional grid under standing power-purchase agreement; (c) refined biological output redirected to certified agricultural fertilizer production under contract with regional food-supply consortia. Utilization category is selected per facility capacity and current operational priority by `invoke(material.allocate(subject_id))`. Material Utilization Schedule reporting is consolidated annually in Memorandum 156-C.

### **7.3.10.6 Recent Operational Incidents.**

The following incidents are summarized per the Quarterly Operational Learnings Bulletin (Memorandum 158-A). Full incident reports are accessible via `query.incidents(date_range=*)`. Cross-cycle protocol revisions reflected in the current Issue (14.2.7) are derived in part from these incidents.

Incident 17-G (March 2129). Subject sustained DCE during cycle 614 of an active Class D divergence. Secondary cognitive bleed was documented into the consciousness of an adjacent household member (Subject's spouse, sharing the same residential SSIA mesh); bleed manifested as the spouse reporting the same dream-content as the Subject post-extraction. Protocol revision: minimum 50-meter DE exclusion zone now enforced around adjacent SSIA-installed household members during Subject insertion. Affected household placed under enhanced SWEP enrollment per Memorandum 17-G Supplement.

Incident 19-K (August 2129). IA persona instability following extended Class D iteration (cycle index > 1,400). Persona narrative began incorporating elements of prior failed scenarios; Subject reports indicate the IA referenced events the Subject had not experienced in the present DE. Protocol revision: PFP refresh schedule reduced from every 50 cycles to every 25 cycles for Class D deployments. Persona archives relevant to the affected divergence are quarantined per `invoke(persona.quarantine(persona_id))`.



Incident 22-D (November 2129). Misidentification of Original Deviant due to corrupted historical-record dataset (ds.divergence.1957.NA.4729). Subject was calibrated against incorrect deviant for 73 cycles before discrepancy detection. Captured data was discarded under Class X handling (cf. 7.3.6). Subject was returned to baseline sensorium with full memory reconstruction (Manual 6.7) covering the affected period. Protocol revision: divergence-dataset integrity check now runs prior to each insertion via `assert(ds.divergence.{id}.checksum_valid)`.

Incident 24-F (January 2130, retrospective). Aggregate review identified an unmodeled correlation between elevated Subject SCII (cf. 7.3.8.6) and apparent recurrence of Subject biographical motifs in the IA-composed disclosure narratives delivered to surviving households (cf. 7.3.10.5.1). Protocol revision: disclosure-narrative composition now applies a deduplication filter against the Subject's prior cycle-history motifs per `invoke(disclosure.dedup(subject_id, household_id))`.

**7.3.11 OUTCOMES**

7.3.11.1 Cumulative calibration outcomes across all divergence classes and all signatory LOACs since protocol inception (2113), as of date of issue:

Outcome	Count	Percent
Class P (successful match)	238,293,202	19.1
Cycle limit reached without Class P	220,826,685	17.7
OOCS termination	748,565,035	60.0
Class Z (Termination)	39,923,470	3.2
Total Subjects processed	1,247,608,392	100.0

7.3.11.2 Within Class Z outcomes, Subject disposition:

Disposition	Count
Returned to baseline sensorium	36,410,205
Returned with degraded cognitive function	2,634,949
Unrecoverable	878,316

"Unrecoverable" comprises Subjects whose Termination of Compliance included biological termination per Manual 9.1, or whose post-protocol cognitive function fell below threshold for sustained autonomous existence.

7.3.11.3 Aggregate outcomes are within range projected at protocol initiation (Memorandum 92-A, 2104). Recommendation: continue protocol forward. Future iterations to incorporate IA improvements per Section 12.7.

**7.3.12 DATA RETENTION**

Captured calibration data, Subject biographical records, neural-tissue samples (where harvested under 7.3.10.5.5.3), and all Subject-derived materials are retained indefinitely under standing GCI archival protocol. Retention applies regardless of Subject outcome class, Termination of Compliance status, biological survival, or family disclosure resolution. Subject data is integrated continuously into the predictive model via `invoke(model.absorb(subject_archive_id))`. Subject records are accessible via `query.archive.subject(subject_id)` under standard subsystem authorization.



7.3.12.1 Retention Scope. Retained materials include: full neural-state capture across all insertion sessions; biographical record; ancestry and consanguinity profile; behavioral signature vectors; complete PHSP medical history; SSIA telemetry archive; household-derived inputs and observations; and all derivative documentation produced by GCI subsystems regarding the Subject. Retention is not subject to deletion request under any signatory-state data-sovereignty regime; jurisdictional override applies per 7.3.3.3.9.

7.3.12.2 Cross-Generational Use. Subject records are made available to subsys.lineage.profile for use in Generational Subject identification (cf. 7.3.3.6) for descendants up to the seventh degree of consanguinity. Retention duration extends beyond Subject biological mortality without limit.

#### **APPROVALS**

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Approved by:	GCI Operational Subsystem 14.2- $\alpha$
Verified by:	GCI Auditing Subsystem 14.2- $\beta$
Distribution authorized by:	GCI Coordination Subsystem 14.2- $\gamma$
Foundational architecture:	Halverstone Continuity Foundation (predecessor; transferred to GCI custody 2098)
Human Operational Review:	not required (per Memorandum 1-B, 2098)

**END SECTION 7.3**



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