Post-Semantic Behavioral Signals as Risk Vectors:
A Boundary Analysis under ABL-1
Addendum to the Ambient Canon

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ABSTRACT

Post-semantic behavioral signals—micro-timing, interaction rhythms, affective drift, circadian entrainment—form a uniquely identifiable layer that is neither biometric nor symbolic.
In ambient systems, these signals act as **behavioral risk vectors** when not bounded by **ABL-1 (Aura Boundary Law)**.

This addendum defines these vectors, examines their identifiability risk, and demonstrates why ABL-1 is the minimal architecture necessary to prevent aura collapse into continuous surveillance.

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1. Introduction

Ambient systems process **continuous** human signals, many of which emerge below linguistic or cognitive thresholds.

These include:

- hesitation curves
- attention decay rhythms
- emotional modulation patterns
- perceptual coupling with light, noise, social density
- micro-temporal motor signatures

Individually, they appear innocuous.
Collectively, they form an **identity field more precise than biometrics**.

ABL-1 exists to prevent this field from being extracted or recognized.

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2. Post-Semantic Behavioral Signals: The Four Risk Classes

2.1 Micro-Temporal Identity Drift

Small variations in timing become a stable behavioral fingerprint when aggregated.

2.2 Rhythmic Vulnerability Leakage

Attention/mood rhythms expose emotional states that can be exploited for personalization or manipulation.

2.3 Cross-Context Behavioral Binding

Signals recorded in one environment can match patterns in another, collapsing anonymity.

2.4 Latent Intent Extraction

Unbounded systems infer intent from micro-patterns the user does not consciously express.

Each vector violates human autonomy at a structural level.

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3. ABL-1 as Risk Containment Architecture

ABL-1 neutralizes all four risk vectors:

3.1 Non-Identifiability Principle

Signals cannot form persistent identity.

3.2 Locality Constraint

Signals never leave the immediate environment.

3.3 Ephemerality Requirement

Signals decay; accumulation is forbidden.

3.4 Non-Predictive Rule

Signals cannot be used to infer intent or vulnerability.

3.5 Anti-Surveillance Clause

No cross-context behavioral matching is permitted.

ABL-1 transforms aura-like signals from *risk vectors* into *expressive-only presence fields*.

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4. Implications for Personal AI and Ambient Systems

Without ABL-1:
- ambient devices become total behavioral surveillance
- identity becomes involuntary and permanent
- personalization becomes psychological extraction
- safety collapses into exploitation

With ABL-1:
- aura becomes expressive, not recognitional
- ambient computing becomes humane
- personal AI becomes non-extractive
- identity becomes voluntary and moment-bound

ABL-1 is therefore foundational for post-symbolic human rights.

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KEYWORDS

ABL-1
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