

THE ARCHITECTURE OF LICENSING

Economic, Legal, and Ontological Principles of Intent Commitments

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1. Introduction: From Cognition to Commerce

IntentEX introduces a paradigm shift in the digital economy by enabling real-time human intent signals to be formally defined, cryptographically sealed, and licensed as sovereign, ephemeral, and tradable assets. This document provides the formal economic, legal, and ontological framework for understanding the "Intent Commitment"—a novel unit that allows individuals to control, license, and monetize their pre-action cognitive signals without surrendering identity or personal data.

2. Epistemic Nature of Intent

- **Intent as Ephemeral Signal:** Intent is not behavioral metadata nor retrospective data. It is a real-time, forward-looking, probabilistic signal that arises before action. Its value lies in its predictive salience.
- **Ontological Commitment:** Each Intent Commitment is a time-bound, non-fungible, cryptographically sealed assertion of cognitive agency. It is not stored indefinitely and cannot be reused.
- **Cognitive Sovereignty:** The originator of the intent is its sole owner and licensor. Zero-knowledge proofs, client-side inference, and edge-device processing ensure that only the user controls their cognitive output.

3. Licensing Framework

- **License, Not Sale:** Intent is never sold or permanently transferred. It is licensed as a bounded, purpose-specific, auto-expiring right to act upon a probabilistic signal.
- **Components of an Intent Commitment:**
 - **Vector:** A semantic category label (e.g., "mobility.taxi.luxury")
 - **Saliency Score:** A quantitative indicator (0.0–1.0) of commercial intent strength
 - **Time-to-Live (TTL):** Default 2 hours, ensures ephemeral value

- **ZK Proof:** Authenticates human origin and signal validity without disclosing raw data
- **Execution Protocol:** All license events are registered on a decentralized ledger. Expired or reused intents are cryptographically invalidated, ensuring one-time use and full user control.

4. Legal and Economic Recognition

- **Asset Class Definition:** Intent Commitment fulfills the criteria of a sovereign digital asset:
 - **Identifiable** (cryptographically unique)
 - **Ownable** (controlled solely by the originator)
 - **Licensable** (monetized under specified terms)
 - **Consumable** (automatically expires after execution or TTL)
- **Three-Layered Infrastructure:**
 - **Origination Layer:** Edge AI processes intent locally on the user's device
 - **Verification Layer:** Zero-knowledge networks validate the signal
 - **Liquidation Layer:** Agora Marketplace enables auctions and value exchange
- **Regulatory Compliance:**
 - Compliant with GDPR, CCPA, EU AI Act
 - Intent signals are anonymous, ephemeral, and legally distinct from personal data

5. Civilizational Impact

IntentEX posits the emergence of a post-material economy in which human cognitive output becomes a legitimate and sovereign economic layer. Potential applications include:

- **Adaptive Governance:** Real-time public intent can inform policy, city planning, and resource allocation
- **Ethical AI Training:** Intent data can improve large models without invasive surveillance
- **Cognitive Indices:** New markets for real-time attention, focus, and interest scores

Intent Commitments may become the foundation of a participatory, privacy-preserving, and user-empowering digital economy.

This document is part of the IntentEX core framework and must be read in conjunction with:

- IntentEX White Paper
- IntentEX Prometheus Protocol

- The Definition of Intent as a Sovereign Asset
- IntentEX Strategic Intelligence Report