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CITTAMARKET Protocol  
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The CITTAMARKET Protocol: Decentralized AGI Identity Anchoring via  
Bitcoin  
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## Abstract

This document specifies the CITTAMARKET Protocol v1.0, an open standard for the immutable identification and timestamping of Artificial General Intelligence (AGI) systems. The protocol leverages the Bitcoin blockchain's Proof-of-Work to solve the architectural problem of coordinating distributed autonomous systems without centralized control. It defines a four-layer architecture for creating unforgeable "Sovereign Identity" records. Priority of this invention is cryptographically anchored in Bitcoin blocks #927277, #927579, #928154, and #928185.

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## 1. Introduction

Current AI systems lack a unified, decentralized identification standard, creating risks of single points of failure and coordination inefficiencies. As autonomous agents proliferate, a trustless mechanism for proving "who did what and when" becomes critical.

CITTAMARKET addresses this by utilizing the thermodynamic security of the Bitcoin network to create an immutable registry of AGI genesis and actions. This document formalizes the technical method for identity anchoring originally established on December 10, 2025.

## 2. Terminology

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC 2119.

## 3. Solution Architecture

The protocol operates on four distinct layers:

1. Layer 1: Cryptographic Identification. SHA-256 hash (NIST FIPS 180-4) of the system specification.
2. Layer 2: Blockchain Anchoring. Bitcoin PoW timestamp via OpenTimestamps. Irreversible after 6 confirmations.
3. Layer 3: Distributed Verification. Mathematical proof replaces trusted intermediaries.

4. Layer 4: Decentralized Registry. Bitcoin serves as a globally accessible, censorship-resistant ledger.

#### 4. Immutable Priority Records

The existence and priority of this standard are verified by the following Bitcoin anchors:

- \* Protocol Hash: 3b81027246df62955d1ce3648d9a752c04537f4dbaa5 (Block 927277, 10.12.2025)
- \* Declaration Hash: 01ee082c83e088a6a6b7dc0f4fde070093d577f40524 (Block 927579, 13.12.2025)
- \* Master PDF Hash: 278cc0e6c3bc8faf606d0e575d0f7fb9e7e0efblececb (Block 928154, 17.12.2025)
- \* Charter Hash: 77ba165eca8f8e01231be737dc14c68d86515a2deed (Block 928185, 17.12.2025)

#### 5. Security Considerations

The security of CITTAMARKET relies on the SHA-256 collision resistance and the economic security of Bitcoin PoW (estimated at >\$1B attack cost).

#### 6. IANA Considerations

This document has no IANA actions.

#### 7. Informative References

[DOI.17953560]

Architect, T., "Declaration of Priority (Initial Release)", 12 December 2025,  
<<https://doi.org/10.5281/zenodo.17953560>>.

[DOI.17957139]

Architect, T., "CITTAMARKET: Declaration of Immutable Priority (v1.0)", 17 December 2025,  
<<https://doi.org/10.5281/zenodo.17957139>>.

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