



# **STF Decentralized Web + Social Media Platform**

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# Defensive Publication: STF Decentralized Web + Social Media Platform

**Title:** Cryptographically Verified Web Browser and Integrated Decentralized Social Platform with AI Moderation, Creator Incentivization, and Secure Domain Resolution

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## 1. Abstract

This publication discloses an integrated browser and social media platform built on cryptographic trust, privacy-preserving infrastructure, and decentralized hosting. It introduces a novel top-level domain (.ava) with cryptographic resolution, a TikTok/X-style content feed powered by local and server-side AI, and a GitHub-style self-hosting system for user websites. The system enables identity-verified, bot-resistant participation and introduces a profit-sharing model with influencers and creators, all while eliminating spoofing, surveillance, centralized moderation, and data exploitation.

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## 2. Problems Solved

- Traditional DNS and TLS systems are vulnerable to spoofing and phishing
- Existing social media platforms rely on centralized moderation, censorship, and opaque algorithms
- Content creators are underpaid despite generating platform value
- Users have no control over their identity, content, or monetization

- Ad-based models exploit personal data and attention
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### 3. System Overview

The platform consists of:

1. A cryptographically verified browser with `.ava` domain resolution
  2. A decentralized Gitea-style interface for user-hosted websites
  3. A containerized deployment system for spinning up public TypeScript-based sites
  4. A decentralized social media network with AI-driven moderation and content delivery
  5. A monetization model that distributes 80% of all profits to users and creators
  6. A referral-based growth incentive for influencers and partners
  7. A wallet-based rewards system and internal reputation engine
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## 4. Core Components

### 4.1 Verified Domain Resolution (".ava" TLD)

- Domain names are hashed via Blake3 and matched against a local ObjectBox index
  - Hashes are downloaded from known trusted STF provider nodes (e.g., merchants, data centers)
  - Domain verification is **cryptographic and local**, preventing spoofing
  - Standard domains (.com, etc.) are accessible but not verified or protected
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### 4.2 Web Hosting and Site Deployment

- A Gitea-like UI allows users to publish their websites via a git-based deployment system
  - Sites are written in TypeScript and compiled into lightweight containers
  - Hosted by the user's local Avaron node, or (optionally) replicated across global nodes for redundancy and scalability
  - Load balancing and global routing available as a paid add-on
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### 4.3 Social Media Interface

- The browser includes a built-in, decentralized social feed similar to TikTok or X
  - All content is locally verified and filtered by a **WASM-based AI moderation engine**
  - Posts are classified and tagged by a server-side Core Node AI, which applies:
    - Topic tags (e.g., “technology”, “mental health”, “education”)
    - Emotional tone (e.g., happy, angry, sad)
    - Adult content classification (used to restrict child visibility)
  - Child users (under 18) are verified at KYC and **linked to a parent account** for visibility and control.
  - No centralized content removal — AI acts as the only filtering mechanism, ensuring consistent and lawful moderation based on First Amendment and criminal law standards.
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### 4.4 Creator Economy and Rewards

#### Monetization Model:

- Platform offers a \$9.99/month subscription for:
  - Sovereign ID (via KYC)
  - Hosting and public site access

- File storage (10gb)
- Access to advanced tools (LLM assistants, social features, etc.)

#### **Influencer Incentive:**

- Each paying user subscription includes:
  - \$5 one-time payout to the referring user
  - \$1 recurring payout each month the subscriber remains active
- Influencers with large followings can earn significant revenue from real platform growth
- But any size influencer can participate.
- All accounts are “monetized” from Day 1.

#### **Creator Rewards Program:**

- 80% of all platform profits are placed into a reward pool
  - All public posts accrue “Engagement Points” based on:
    - Views
    - Likes
    - Shares
    - Comments
  - At the end of each 30-day cycle:
    - Total points = divisor for the reward pool
    - Each creator receives a payout proportionate to their engagement score
  - Rewards are paid into the user’s wallet, secured by their biometric cert and wallet hash
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## 4.5 Data Sovereignty and AI Controls

- All content moderation and site publishing decisions are made **locally or by transparent Core Node AI**
  - Users can review AI decisions and even influence the content shown in their feed by adjusting preferences
  - User data is never collected, sold, or monetized by the platform
  - The only data shared with the network is cryptographically hashed public content already published by the user
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## 5. Security and Compliance

- **No centralized moderation or content review staff**
  - **No data collection for advertising purposes**
  - **Child access restricted and fully parent-auditable**
  - **AI moderation logic is transparent and open source**
  - **All identity is cryptographically verified at signup**
  - **All hosted content is non-spoofable and cryptographically tied to domain + owner**
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## 6. Novelty and Prior Art

This system introduces multiple combined innovations not seen in other browser or platform ecosystems:

- Fully cryptographic domain resolution (no DNS or TLS)
- AI-powered moderation with no centralized reviewers

- Monetization and engagement tracking via built-in tokenless rewards
  - Replacing influencer “views” with actual, measurable residual income
  - Transparent and automated profit distribution
  - Decentralized feed algorithm with user control over emotional tone/content types
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## 7. Intent and Licensing

This defensive publication is intended to:

- Prevent corporate enclosure or patent restriction of the described system
- Guarantee user-first principles, monetization equity, and decentralization
- Protect a new kind of open internet where creators and communities thrive without compromise

All software is licensed under **AGPLv3** with an available **commercial license** for enterprise or regulated usage. All core mechanisms are intended to remain permanently open source and auditable.