



SPL Shield

# SPL Shield Solana AI-Native Security Layer

TDL Token & DeFi Protection Protocol

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# 1 Future Features

## 2 Executive Summary

SPL Shield is a security and analytics layer for the Solana blockchain, designed to protect investors, developers, and communities from scams, rug pulls, and malicious contracts. At the heart of this ecosystem lies the TDL Token, which powers governance, staking, rewards, and access to premium features. Together, SPL Shield + TDL form a comprehensive trust and security backbone for Solana DeFi.

## 3 Introduction

The Solana ecosystem has rapidly grown into one of the most active and innovative blockchain platforms. With its low fees, high throughput, and developer-friendly environment, Solana has attracted millions of users and billions in TVL (Total Value Locked)<sup>5</sup>. But with growth comes risk:

- Rug pulls and token scams undermine investor trust.
- Lack of real-time monitoring tools leaves communities exposed.
- Projects struggle to prove credibility in a trustless market.

SPL Shield was created to solve these challenges.

## 4 The Problem

- Fraud & Rug Pulls: New tokens can be launched in minutes, often with malicious intent.
- Lack of Transparency: Existing analytics tools are fragmented or too technical.
- Weak Investor Protection: Communities have no unified shield against scams.

Every successful ecosystem needs a security foundation, and this is where SPL Shield enters.



## 5 The SPL Shield Solution

SPL Shield is a three-layer security framework for Solana:

- **Risk Scanner:**

- Detects suspicious wallets, tokens, and contracts in real-time.
- Flags liquidity issues, abnormal trading patterns, and exploit risks.

- **Analytics Dashboard:**

- Token distribution charts.
- Liquidity pool health.
- Historical risk scoring.

- **Community Protection Tools:**

- Telegram bot alerts.
- Scam reporting bounty system.
- Developer verification & audits.

## 6 Core Technical Methodology

The SPL Shield Risk Scoring Model utilizes an on-chain data stream coupled with a proprietary risk matrix to generate a normalized score (0–100) for all SPL tokens. This process provides the foundation for the real-time Risk Scanner.

- **On-Chain Data Ingestion:** Real-time monitoring of all new liquidity events, token mint authority changes, and wallet cluster transactions on the Solana blockchain.
- **Risk Matrix Parameters:** The scoring model is weighted across three main categories:
  - Liquidity Health (40% Weight): Measures the initial liquidity provision, the percentage of liquidity that is locked or burned, and the correlation between trading volume and total value locked (TVL).
  - Contract Vulnerability (40% Weight): Automated static analysis check for known SPL token attack vectors, including unlocked mint authority, freeze authority, and excessive supply that can be controlled by a small number of wallets.



- Abnormal Trading Patterns (20% Weight): Uses statistical models to flag transactions indicative of a rug pull or wash trading, such as large token sales within the first 500 blocks of deployment or massive, sudden token transfers out of the liquidity pool by a single wallet.
- **Real-Time Performance:** The scanner is optimized for a sub-2-second detection latency, correlating to an average of less than 4 Solana blocks for critical risk flags.

## 7 TDL Token Utility

The TDL Token is the fuel of SPL Shield. It ensures that users, developers, and communities interact in a secure, incentivized, and transparent environment.

Utility Breakdown<sup>29</sup>:

- Governance: TDL holders vote on ecosystem upgrades and policy changes.
- Staking: Lock TDL to unlock advanced features and premium analytics.
- Rewards: Earn TDL for reporting scams and contributing to community growth.
- Ecosystem Services: Pay with TDL for audits, verifications, and advanced features.

## 8 Tokenomics Distribution

Category	Allocation	Vesting/Lock-up
Community & Rewards <sup>34</sup>	33%	Unlocks linearly over 48 months to incentivize long-term participation and bounties.
Team <sup>35</sup>	17%	24-month linear vesting.
Advisors <sup>36</sup>	8%	18-month linear vesting, with a 3-month cliff.
Reserve <sup>37</sup>	8%	12-month time-lock via a Solana smart contract, released gradually for operational costs.
Partnerships <sup>38</sup>	9%	Unlocked based on successful execution of strategic partnership agreements.
Public Presale <sup>39</sup>	25%	12-month linear unlock, with no cliff, starting at DEX listing.



**Total Supply:** 1,000,000,000 TDL

**Presale Allocation Tokens:** 250,000,000 TDL (25%)

**Token Standard:** Solana SPL (Token-2022 with Extensions)

**Reference SOL Price (Pricing Basis):** \$200

**Token Price (Presale):** \$0.002 per TDL = 0.00001 SOL (100,000 TDL per 1 SOL)

**Soft Cap:** \$400,000    **Hard Cap:** \$500,000 (SOL/USDC)

**Fully Subscribed Presale Proceeds:** 250,000,000 TDL \* \$0.002 = \$500,000

**Presale Details:** Fixed-price sale; if SOL deviates from \$200, SOL-denominated contribution amounts adjust to maintain \$0.002 USD-equivalent per TDL.

**Vesting (Presale):** 12-month linear unlock (no cliff) starting at DEX listing.

## 9 Platform Features

Core Features<sup>44</sup>:

- Fraud Detection: Detects and flags malicious activity instantly.
- Analytics Dashboard: Investor-grade insights into token health.
- Telegram Bot Alerts: Real-time scam notifications.

## 10 Future Features

- Confidential Transfers (via Token-2022 extensions)
- Enterprise API: Security scoring for Solana DEXes, wallets, and launchpads

## 11 Market Opportunity

- Solana TVL: \$4B+ and growing.
- DeFi rug pulls & scams cost billions annually across chains.
- SPL Shield + TDL are positioned as the first “security-first” token for Solana.
- Target markets: DeFi investors, project teams, launchpads, exchanges.



## 12 Security & Compliance

- Smart Contract Audits: Mandatory before major releases.
- Internal Security Reviews for all features
- Regulatory Alignment: Structured to comply with global token sale practices
- Anti-Rug Protocols: Future partnerships with DEXes for integrated scoring

## 13 Team & Governance

- Core Team: The founding team has chosen pseudonymity to protect the project from physical and online threats, a common practice in the security sector.

However, to establish trust in this security-focused project, the team commits to:

- Mandatory Smart Contract Audits: Before every major release, including the TDL smart contract.
- Multi-Sig Treasury: The project treasury is governed by a multi-signature wallet, including a well-respected external, Doxxed advisor as one of the key holders (TBD).
- Team Expertise: Founder/CEO (Blockchain & Solana Developer), CTO (Smart Contract & Security Specialist), CMO (Crypto Marketing & Growth Expert), Community Lead (DeFi & Telegram Community Builder).
- Governance:
  - DAO-style governance layer for major decisions.
  - TDL staking = voting rights.

## 14 Legal Disclaimer

This document does not constitute an offer to sell or the solicitation of an offer to buy any securities in any jurisdiction. The TDL token is designed solely as a utility token to access premium features, governance, and services within the SPL Shield ecosystem. It is not intended to be a security, and no representation is made regarding the advisability of purchasing or selling the token. The information in this Whitepaper is for informational purposes only and may be subject to change.



## 15 Conclusion

SPL Shield and TDL Token aim to make Solana the safest blockchain for DeFi and NFTs. We combine cutting-edge analytics, real-time monitoring, and community-powered security with a utility-driven token economy. By raising a targeted \$400–500 K (soft / hard cap) in the presale at a reference price of \$0.002 (0.00001 SOL) per TDL, we will deliver:

- MVP products that bring instant value.
- Sustainable tokenomics tied to platform utility
- A global marketing campaign to grow both SPL Shield and TDL adoption

TDL is not just a token, it's the future of Solana security.

