



THE TRUSTLESS FRAMEWORK

CODIFYING ACCOUNTABILITY
IN DIGITAL PAYMENTS

WHITEPAPER

v0.9 (OCT 7, 2025)

The Trustless Framework: Codifying Accountability in Digital Payments

Version 0.9 – October 7, 2025

Trustless Payments – XRPL Escrow Automation

Executive Summary

Trustless Payments establishes a verifiable framework for digital accountability. Built on XRPL, it automates escrow creation, funding, and conditional release through immutable logic rather than human trust. Each transaction enforces measurable outcomes—reducing counterparty risk, eliminating intermediaries, and reinforcing market integrity. A 5.89% fee model sustains operations and fuels an on-chain buy-and-burn mechanism for the \$TRLS token, aligning long-term network growth with transparent economic discipline. Trustless Payments embodies a foundational shift toward code-enforced fairness—a level playing field where automation replaces promises, and accountability becomes programmable.

1. Problem

- **Trust failure:** Hand-shake promises and subjective milestones lead to fraud, delay, and drama.
- **Coordination tax:** Human arbitration adds bias and inefficiency.
- **Perverse incentives:** Honest builders absorb risk while rent-seekers thrive.

Traditional “trust-based” systems cannot scale integrity. They depend on reputation and emotion rather than verifiable outcomes.

2. Solution — Enforced Escrow

Replace trust with verifiable conditions and machine enforcement.

The **Trustless Telegram bot** walks users through

escrow creation, funding, and automated resolution. Conditions can reference measurable on-chain or off-chain data such as token market cap. These are evaluated on a scheduled loop until expiry.

Workflow:

- **Create:** Enter amount, recipient, contract address, target market cap, and expiry in days.
- **Fund:** Send exact XRP with the bot-provided memo or tag. Post transaction hash; the bot confirms funding.
- **Resolve:** If target met → release; otherwise → refund.

3. Mechanics

- **Escrow records:** Each escrow includes unique memo/tag, immutable audit data, and time-stamped state transitions.
- **Condition checks:** Automated scheduler

compares data sources against user-defined targets.

- **Determinism:** Every state change is rule-based and logged.
- **Compatibility:** Designed for XRPL with architecture allowing multi-chain expansion.

Implementation note:

The MVP standardizes deadlines in **days** and market-cap as **whole numbers** for reliability and simplicity.

4. Fees & Buy-Burn

- **Escrow Fee:** 5.89%
- **Split:** 50% development operations / 50% automated buy-and-burn of \$TRLS
- **NFT Holder Fee (Planned):** Target ~1%

Every fee and burn is visible on-chain.

No private ledgers. No hidden allocations.

5. Token – \$TRLS

\$TRLS aligns incentives with network usage.

Each escrow fee contributes to automatic buy-and-burn pressure, steadily reducing circulating supply while continuously funding development and operations.

Demand equals accountability.

6. Security & Risks

- **Key Handling:** Users never share private keys with the bot; all transactions are signed independently on XRPL.
- **Data Integrity:** Market-cap feeds are verified and validated; fallback routines prevent unsafe actions.
- **Irreversibility:** On-chain actions are final. Users must confirm addresses, destination tags, and

amounts.

- **MVP Limitations:** Simplified condition templates reduce complexity and attack surface.

7. Governance & NFTs

Governance begins utility-first: deliver the enforcement layer before expanding influence. The upcoming **Trustless Toads** NFT collection grants fee reductions and governance rights. Token-weighted and NFT-gated proposals may follow after stability and audits.

8. Roadmap

MVP Phase: Telegram bot with escrow creation, funding detection, condition checks, automatic release/refund, and buy-burn logic.

Hardening Phase: Improve reliability, redundancy, and monitoring.

Expansion Phase: Multi-chain integration, advanced

condition templates, and permissionless developer extensions.

Appendix – Core Links

- Launch Bot: [enforcer.html](#)
- Tokenomics: [tokenomics.html](#)
- Buy \$TRLS: [buy.html](#)
- Whitepaper PDF: [whitepaper.pdf](#)

XRPL Addresses

Issuer:

r9NcytRxC1CX1vERGN9HGR2Bwbuo6tGX1h

Dev:

rso5tMdqV9jRT6XNM4nrgkZcpFna2YzgVX

Marketing:

rfhY7VruzVzuGJCa7KCJXvkeUecors6RtY

Team:

rKTVbobshZ7qkja7sWf9dKTZBJkWyriytB

Development:

rLqDnqQSBNRS4YtSrLyuMDhZ22aLptmyTq

Rewards:

rGEA1mJwRosGY8zH3W394f4oFhERrxAhMA

Treasury:

rBrT1sVMt6Hn5YVo5F8XgyjwuzE9JP1q1J

Legal & Disclaimers

This document is for information and entertainment. Nothing herein constitutes investment advice, solicitation, or a guarantee of results.

Users are solely responsible for verifying all addresses, destination tags, and transaction details before sending.

By using the Trustless bot, you acknowledge full compliance with your local laws and regulations.

Changelog

v0.9 – October 7, 2025

First public release. Added XRPL addresses, simplified condition templates, aligned tone and formatting with corporate site.