TatsuOS Whitepaper

Ask

A Trustless Operating Layer for Connected Devices
The AI-Native IoT Platform, Powered by TATSU.

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Abstract

The Tatsu Ecosystem has, since its inception, been built around a single conviction: that the future of computing must be open, verifiable, and free from centralized control. TatsuOS is the next step in that mission — a shift of the TATSU token's utility into a practical, deployed product that puts the token to work in the everyday operation of connected hardware.

TatsuOS is a fleet-management and feature-unlocking layer for connected IoT devices, built on the Zephyr real-time operating system and anchored by the TATSU token. Devices running TatsuOS do not depend on a vendor's cloud to authorize their capabilities. Instead, end-users burn TATSU on-chain to unlock a feature; the burn event is observed and signed into an ECDSA receipt; that receipt is delivered to the device — typically over Bluetooth Low Energy (BLE) — and the device's firmware verifies the signature against a key burned into its own image at compile time. No revocable license server. No phone-home dependency. No vendor lock-in.

This document describes the architecture, the cryptographic guarantees, the new utility that TatsuOS introduces for the TATSU token, and a realistic six-month roadmap to bring the system from working prototype to first commercial OEM deployment.

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