



Aptorix Tech White Paper

Introduction

Aptorix Tech is an innovative startup that uses blockchain to transform global logistics. We offer scalable and secure solutions for inventory management, order preparation, and product traceability. Our vision is to revolutionize logistics operations through advanced and disruptive technology.

Mission

Our mission is to simplify, secure, and optimize logistics processes through a blockchain-based platform. We provide our clients with innovative solutions to reduce errors, increase transparency, and ensure product authenticity.

Our Solutions

1. Inventory Management

Description: An intuitive and secure interface to optimize your inventory in real time.

Benefits:

- **Offline management with blockchain synchronization to avoid interruptions during outages.**
- **Loss reduction through predictive alerts.**
- **Immutable transaction history to ensure transparency.**

Technologies Used:

- **Dynamic fields for flexible management of inventory information (e.g., "Expiration Date," "Batch Number").**
- **Enriched metadata for detailed analysis.**

2. Order Preparation

Description: Accelerate your processes while maintaining accuracy.

Benefits:

- **Automation and smooth data synchronization to reduce errors and speed up shipping.**
- **Example: A distribution company handles 100 orders per day and saves 8 hours of daily processing with our solution.**

3. Traceability and Security

Description: Each product is recorded on the blockchain to ensure complete transparency.

Benefits:

- **Counterfeit prevention: Immutable history to ensure authenticity.**
- **Data backup and security: Reduced losses through decentralization.**

Key Features:

- **Offline Mode: Automatic synchronization of actions upon reconnection.**
- **Unique Labels: Individual QR codes for each product, with automatic translation.**
- **Automation: Easy integration with ERP systems, reducing human errors.**

Blockchain and Infrastructure

Initial Deployment on Aptos

Why Aptos?

- **Low transaction fees.**
- **Exceptional speed through the Move language.**

- **Advanced security for sensitive data integrity.**

Benefits:

- **Instant inventory synchronization.**
- **Detailed management of product metadata.**

Expansion to Other Blockchains

- **SEI: Ideal for fast and low-cost microtransactions.**
- **Base: A Coinbase-supported solution offering scalability and compatibility.**

Philosophy: Provide total flexibility so each client can choose the blockchain best suited to their needs.

Use Cases

1. Inventory Management

- **Problem: Difficulty tracking products in large warehouses.**
- **Solution: Real-time tracking and blockchain synchronization.**

2. Counterfeit Prevention

- **Problem: Non-authentic products on the market.**
- **Solution: Proof of authenticity through an immutable history.**

3. Order Tracking

- **Problem: Lack of transparency in deliveries.**
- **Solution: Real-time alerts on deliveries and order status.**

Pricing Models

- **Essential Plan: Small teams. Price: \$40 to \$500 / month.**
- **Pro Plan: Medium-sized businesses. Price: \$500 to \$2,500 / month.**
- **Custom Plan: Large enterprises. Price: \$2,500 to \$5,000+ / month.**

Security and Transparency

Technologies Used:

- **Public blockchain for transparency.**
- **Auditable smart contracts to ensure integrity.**

Security:

- **Encrypted data.**
- **Restricted access via private keys.**

Technologies and Systems Used

- **Blockchain Technologies: Aptos, SEI, Base.**
- **Smart Contracts: Developed in Move for optimal security.**
- **Data Storage: Immutable history of products and dynamic fields.**
- **User Interfaces: Platforms built with React and Node.js , Java Script .**
- **ERP Integrations: Native connectors for SAP, Oracle, and Microsoft Dynamics.**

Objectives

By 2027, we aim to:

- **Collaborate with over 1,200 logistics warehouses.**
- **Launch beta tests by 2025.**
- **Capture up to 2.5% of the global blockchain logistics market.**

Conclusion

Aptorix Tech provides a clear response to modern logistics challenges. Our blockchain-based solution ensures transparency, security, and efficiency. With our multi-blockchain approach, we adapt to the specific needs of each client. Join us in transforming the future of logistics.

