DePINfinity

DePINfinity - The Future of Hybrid Mobile Infrastructure

2025.10.20

Agenda

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2. **Solution Architecture** and Two-Layer Design
3. **Core User Experience** Demonstration
4. **B2B Integration** and Solana's Role
5. **Technical Implementation** Highlights
6. **Future Vision** and Call to Action

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1. Problem Statement

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Critical Challenges in Mobile Infrastructure

Addressing coverage gaps and operational inefficiencies

Persistent Network Coverage Gaps
Significant inconsistency in mobile network coverage and quality, particularly in rural and indoor areas

Inefficient B2B Roaming Agreements
The process for inter-carrier roaming and infra sharing contracts is complex, slow, and **inefficient**

Lack of Sustainable User Incentives
No sustained motivation for users to contribute high-quality, real-time network data for analysis

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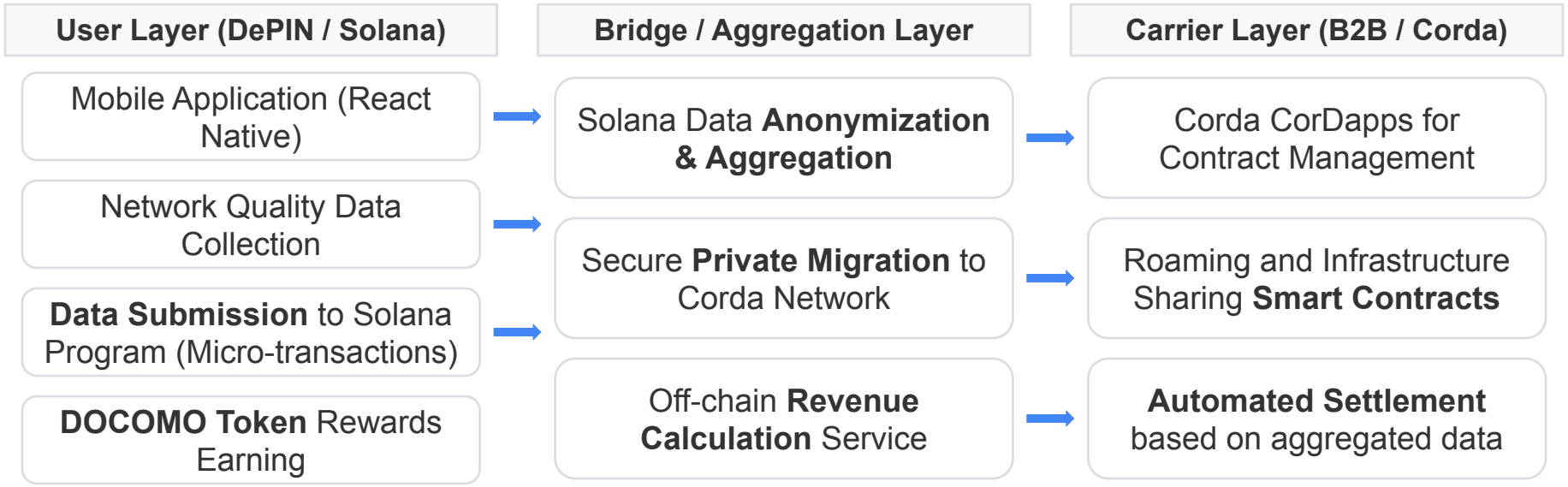
2. Solution Architecture Overview

DePINfinity Hybrid Architecture

A public Solana layer for users and a private Corda layer for B2B transactions



3. Core User Experience Demo

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Real-time Data Contribution & Reward Calculation

Demonstrating a **smooth UX** from device registration to token rewards

- Easy registration for devices: smartphones, routers, and hotspots
- Automatic collection of network quality metrics: signal strength, latency, and throughput
- Token rewards calculated based on **data quality** and uptime
- Dashboard for checking **real-time statistics** and reward history

4. B2B Integration & Solana's Role

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Public vs. Private Blockchain Synergy

Leveraging the strengths of both Solana and Corda

Solana (Public Layer)

- High **throughput**, low fees: Ideal for mass micro-transactions
- Transparent **token incentives** and reward distribution
- Fosters **real-time user participation** and community growth
- Anchor framework utilized for **robust program development**

Corda (Private Layer)

- Handles **confidential** B2B transactions between carriers
- Automates infrastructure sharing via **smart contracts**
- Uses **privacy-preserving** anonymized data aggregation
- Permissioned network ensures regulatory **compliance**

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5. Technical Implementation Highlights

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Key Technical Stacks & Development Frameworks

Achieving speed and high assurance in a hybrid environment

1. Solana: **Anchor framework** for writing **secure and robust** smart contracts
2. Corda: **CorDapps** for B2B contract logic and **privacy-preserving** data migration
3. Mobile App: **React Native** for fast, **cross-platform** mobile compatibility
4. Bridge: Integration of **anonymization logic** and **aggregation algorithms**

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6. Future Vision & Call to Action

The Impact of DePINfinity

Building a sustainable ecosystem for users and carriers globally

- Users gain a **permanent revenue stream** for contributing quality data
- Carriers obtain **real-time, high-fidelity** network coverage intelligence
- Automated settlement dramatically **reduces roaming administrative costs**
- Lays the foundation for a **global, shared mobile infrastructure**


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