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Abstract — SolMail V2

What is SolMail?

SolMail is a **wallet-native, censorship-resistant, and end-to-end encrypted communication protocol** built on the **Solana blockchain**. It transforms email — the most universal identity and messaging system in the world — into a **Web3-native primitive**, where every user's **wallet is their inbox**, their **identity is an asset**, and their **email becomes a passport** across decentralized applications.

With SolMail:

- **Your wallet is now an inbox** → Your Solmail wallet can receive messages, invoices, or crypto assets.
- **Identities are assets** → Usernames like `name@sol.mail` and domains like `dao.mail` are NFTs, ownable, tradable, and programmable.
- **Messages are programmable** → Beyond text, messages can carry payments, NFTs, contracts, signatures, or DAO proposals.
- **Privacy is the default** → End-to-end encryption, metadata minimization, and on-chain proofs replace surveillance-driven email models.
- **Universal Web3 Login** → SolMail IDs act as a **single sign-on (SSO) credential** for the Solana ecosystem, enabling users to access dApps and platforms securely with one wallet and one identity.

Why SolMail?

Legacy email is centralized, surveilled, and fragile:

- Mailboxes are rented from providers (Gmail, Outlook), not owned by users.

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- Sender authentication is patchy, enabling **phishing, spam, and impersonation**.
- Payments, contracts, and workflows are fragmented across external systems.

SolMail solves these gaps by design:

- **Interoperability** → Handles, domains, wallets, and Solana Name Service all resolve to a single, verifiable communication standard.
- **Censorship Resistance** → The protocol has no gatekeepers; rules are enforced by math and governance, not corporations.
- **Communication + Settlement** → Messaging, payments, and signatures converge in the inbox.
- **Identity Sovereignty** → Every identity is cryptographically secured and tradable.
- **Universal Web3 Access** → Users can log in to multiple Solana dApps with their SolMail ID, consolidating identity and wallet management into a single secure layer

Mission

SolMail's mission is to onboard the next million users to **sovereign communication and identity** on Solana by:

- Making **email-style onboarding** simple and familiar for new users.
- Embedding **financial and organizational primitives** (payments, contracts, governance) directly into messaging.
- Acting as a **universal login and identity service** for Web3 users across Solana platforms.
- Ensuring **trustless, censorship-resistant coordination** for individuals, DAOs, enterprises, creators, and NGOs.

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Principles

- Privacy by Default — End-to-end encryption, client-side storage, and cryptographic sender verification ensure no central authority can surveil or censor.
- Ownership by Design — Identities, messages, and namespaces are assets you own, not licenses from intermediaries.
- No Gatekeepers — The protocol is open, permissionless, and censorship-resistant. Anyone can send to a wallet, even without an account.
- Security Over Hype — Technical integrity is prioritized over marketing narratives; claims are grounded in code and on-chain proofs.

Next
Background & Problem Definition

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