

# SKR Whitepaper

## Summary

For far too long, the duopoly has maintained a tightly controlled, walled garden approach to governing their mobile ecosystem. In this environment, access, distribution, and discovery are dictated by centralized gatekeepers. Developers must play by their rules, and users are limited to the experiences those platforms allow.

Solana Mobile was founded to challenge this model by creating an ecosystem where the rules are shaped by the participants, not enforced by platform overlords. We believe the future of mobile lies in an environment where builders and users collectively influence the ecosystem they rely on.

Solana Mobile Platform is establishing a new, open ecosystem for mobile app development — one where rules are transparent, community-driven, and enforced in a decentralized way. While the journey began with Solana Mobile's Saga and Seeker devices, the ambition extends far beyond. Challenging the mobile duopoly means expanding the platform across a broader range of hardware manufacturers and participants.

Success as a mobile platform is not possible without hardware partners. But first, we need to earn their conviction. By proving the value of the Solana Mobile ecosystem through the success of the Seeker, we hope to compel hardware partners to join the platform and transform this grassroots crypto mobile environment into a movement too significant to overlook.

## TEEPIN

To accommodate the expansion of the Solana Mobile ecosystem, we are introducing a new architecture - TEEPIN - or Trusted Execution Environment Platform Infrastructure Network. Similar to how a DePIN (Decentralized Physical Infrastructure Network) works today - where token incentives are used to bootstrap supply side operators of an infrastructure network - the TEEPIN network will coordinate hardware and software together to create a secure and cohesive ecosystem of mobile devices and applications.

At the hardware layer, the TEEPIN network utilizes the secure environment that is standard to most smart devices – the Trusted Execution Environment. For example, devices like the Seeker use this protected hardware to manage your seeds via Seed Vault. We’re building on the capabilities of the TEE to create both a standardized transaction signing environment, Seed Vault, and cryptographic proofs that the entire network can trust – evidence of each device's unique identity, secure status, and confirmation that it’s running genuine unmodified software.

The platform layer consists of everything you already know about the Solana Mobile ecosystem. It is the plane on which verified dApps connect with authentic users; without gatekeepers standing in their way.

Finally, the network layer is the governance structure that allows the ecosystem to function in an open, decentralized manner. Guardians, organizations or individuals running specific checks for the ecosystem, will be responsible for a host of tasks that will ensure the ecosystem is running as expected. This includes verifying devices, authenticating dApps, approving new hardware manufacturers coming into the ecosystem, and more.

## The SKR Token

For TEEPIN to function, the ecosystem needs a mechanism of coordination. The SKR token will serve as the governor of the Mobile ecosystem allowing users, developers, and curators alike to come together in stake-based decision making for the ecosystem.

Governance power will be allocated via the SKR token to Guardians. Guardians, discussed later in this document, will be responsible for serving two primary functions – verifying device status on the network and admitting apps to the Solana dApp Store.

In the initial phase of the ecosystem, SKR will exclusively serve as a coordination tool that enables the ecosystem to operate by delegating curation powers to Guardians. However, additional driving forces propelling the SKR ecosystem become imperative as the ecosystem develops. In the future, ecosystem participants may be able to redeem SKR to receive discounts or rebates on costs related to participation in the Mobile ecosystem.

In addition, as the ecosystem matures, the platform is designed to permit value capture in the form of fee revenue on certain transactions through the network. At the point when the ecosystem determines that monetization can be enabled without harming growth, the network of Guardians can begin enforcing fee capture at the dApp evaluation layer.

Similarly, upon expansion of the Solana Mobile platform to other Android hardware OEMs, hardware devices will go through similar verifications. This will ensure that their ability to tap into the existing user base is on the condition that they contribute back to the ecosystem.



## Curation

A key component of the Solana Mobile ecosystem will be the token weighted curation of dApp Store applications and ecosystem participants. As such, it's imperative that a decentralized curation method is implemented. This is where the role of Guardians will be fundamental.

## Guardians

Guardians are node operators elected to serve the ecosystem in a manner similar to how validators serve distributed systems, like Solana, today. In order to become a Guardian, node

operators will be required to post a SKR bond to their node. The initial bond amount will be set at 250,000 SKR per node. This amount can be adjusted at a later date through community governance as market dynamics change.

As devices enter the ecosystem, they will automatically submit proofs of their identity, secure boot status, and certificate authenticity, leveraging the Trusted Execution Environment required of all TEEPIN devices. Guardians will programmatically verify the integrity of the software and the identity of the device to produce proofs, both on-chain and off-chain, that the devices can use within dApps and onchain programs to demonstrate their uniqueness and authenticity.

These proofs can be used to create a connection, both long-lived and ephemeral, between users, their devices, dApps, and their onchain presence. It allows dApps to guard against sybil attacks and gate functionality to only users running on approved software. Guardians, in conjunction with the TEEPIN environment on the device, can also generate advanced ZK proofs of unique identity without disclosing the underlying device identifiers themselves.

Complementary to these authenticity checks, the Guardians will also be responsible for reviewing application submissions to the Solana dApp store. It's imperative that applications submitted to the store are built properly, are not malicious, and conform to the rules that the ecosystem has set forth.

When a developer submits to the dApp store, they will be required to post an SKR bond. This bond will both serve as a sybil resistance mechanism and a means of enforcing penalties against dApp developers who submit malicious applications to the store. Initially this bond amount will be set at 100 SKR and can be adjusted at a later date via community governance. Bonds will be held in timelocked contracts for a duration of three (3) months and can be withdrawn by app developers thereafter.

After an app is submitted for review, it will be evaluated by a Guardian. First, the Guardian will run a programmatic check on the application's APK file to confirm it does not request harmful permissions from the user's device. Next, utilizing an LLM for assistance, the Guardian will evaluate the application's metadata to confirm it does not contain any obscene or malicious text or visual content. Expectedly, the rules of the ecosystem will evolve with governance over time.



As they do, Guardians will need to update their verification software accordingly to ensure they are enforcing the community's agreed upon rules.

If the application passes all the requisite checks, it will then be submitted to the dApp store.

In return for their services, Guardians will be rewarded with inflation rewards from the network. Much like any other DPoS system, ecosystem participants holding SKR will be able to delegate their stake to the Guardian of their choice. In return, Guardians will pay their inflation reward, minus a small commission fee, to stakers.

## Ecosystem Curators

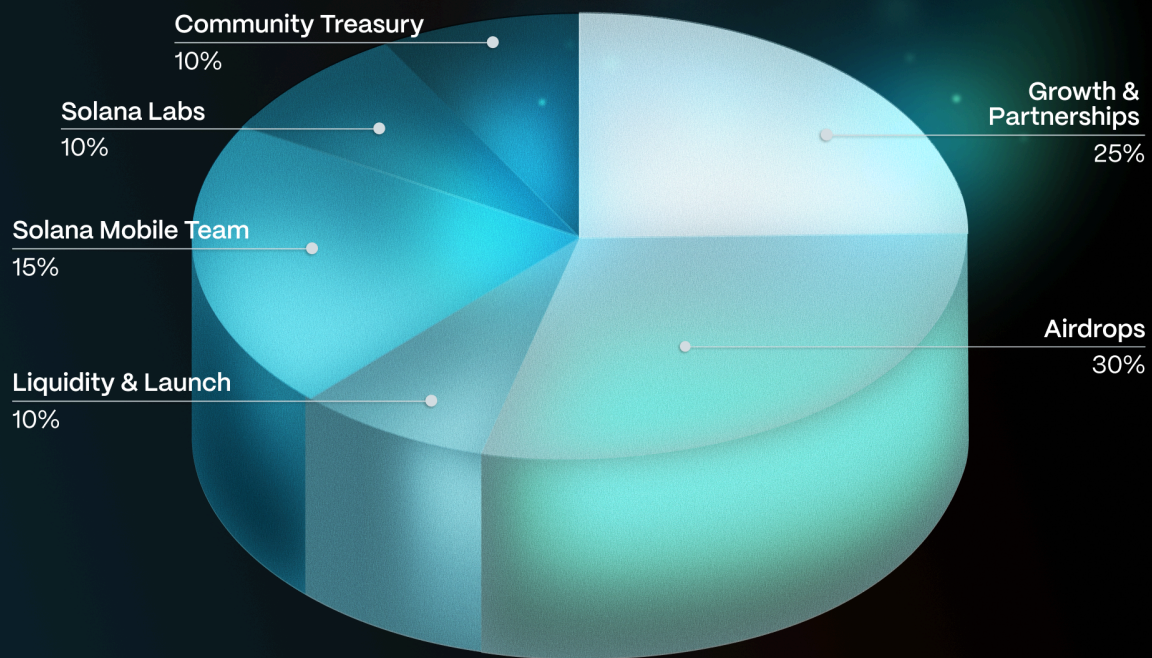
It is important to note that not all bad applications can be filtered out by the Guardian checks referenced above. To mitigate this, a mechanism will be established whereby Ecosystem Curators can help maintain the quality of the apps available in the Solana dApp store.

As apps are allowed into the dApp store by Guardians, Ecosystem Curators will be able to use the applications and review them publicly to earn additional rewards. For example, if an Ecosystem Curator downloads an app and finds out that it is non-functioning beyond the sign-in screen, that curator can rank the app a 1-Star. If an application receives a certain threshold of poor reviews, it will be relegated to a 'spam' section of the dApp store whereby users will have to take a manual action to view them.

Anyone who wishes to provide their services to the Solana Mobile ecosystem can become an Ecosystem Curator. We expect that these individuals will be Mobile-aligned power users in the short term and likely will be hyper-active governance community members in the long term.

Ecosystem curators will not be explicitly rewarded for this work at the outset of the protocol, but some form of compensation may be included later at the discretion of the community. Whether in the form of one-time payouts for services rendered (e.g. grants) or a perpetual mechanism by amending the inflation distributions in the future.

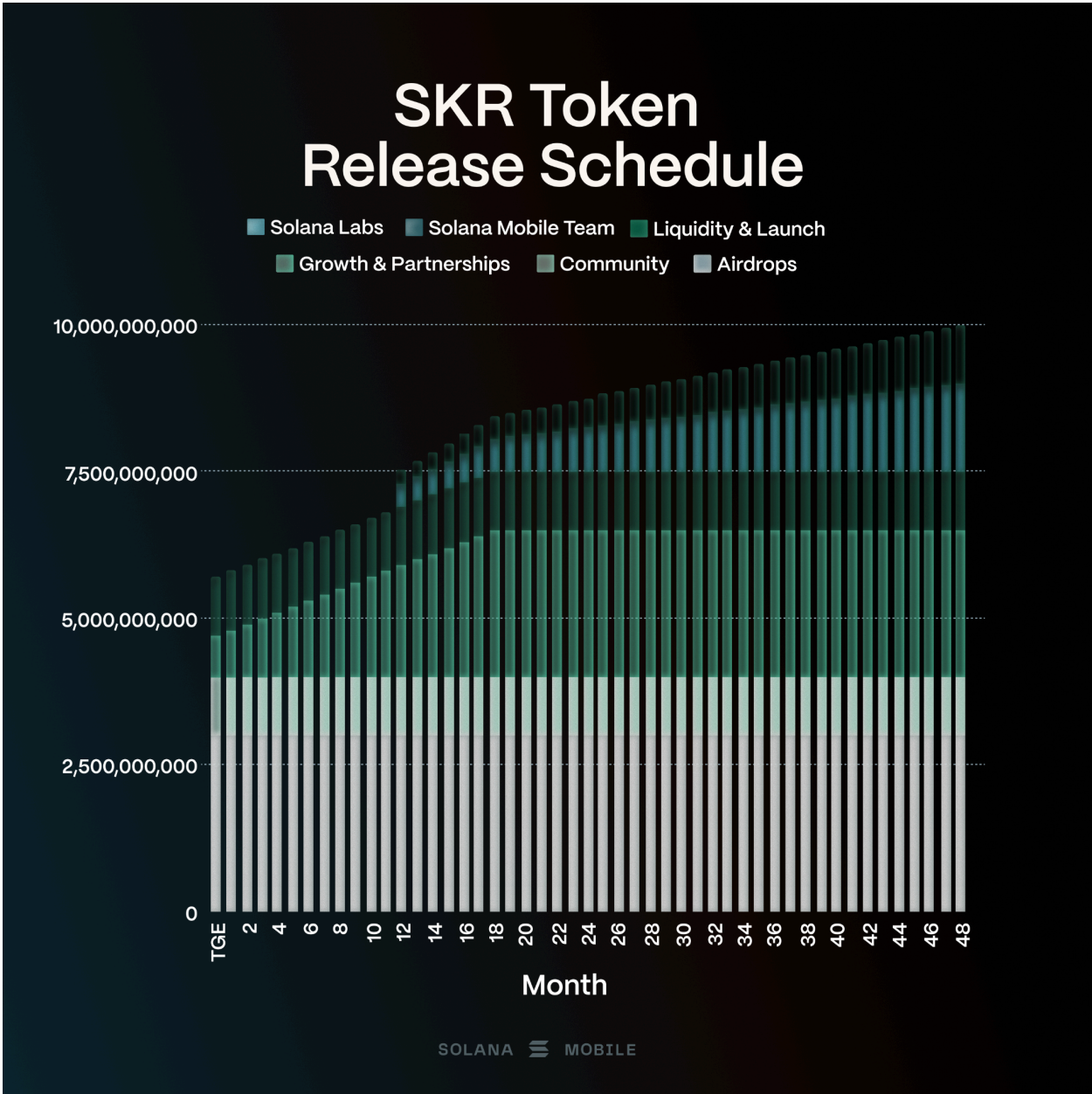
## Seeker SKR Distribution



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Category	Share of Supply	Details
Growth & Partnerships	25%	<p>Builder Grants, hardware manufacturers (OEMs) partnerships, dApp RFPs, hackathons, marketing activations, developer onboarding and education.</p> <p>28% unlocked at launch, linear unlock over 18 months.</p>
Airdrops	30%	Unlocked at Launch.
Liquidity & Launch	10%	<p>Exchange listing fees, market makers, liquidity.</p> <p>Unlocked at Launch.</p>
Community Treasury	10%	<p>Managed via community governance to fund protocol development and ecosystem growth.</p> <p>Unlocked at Launch.</p>
Solana Mobile Team	15%	12 month cliff, 36 month linear unlock thereafter.
Solana Labs	10%	12 month cliff, 36 month linear unlock thereafter.

Token Emission Schedule



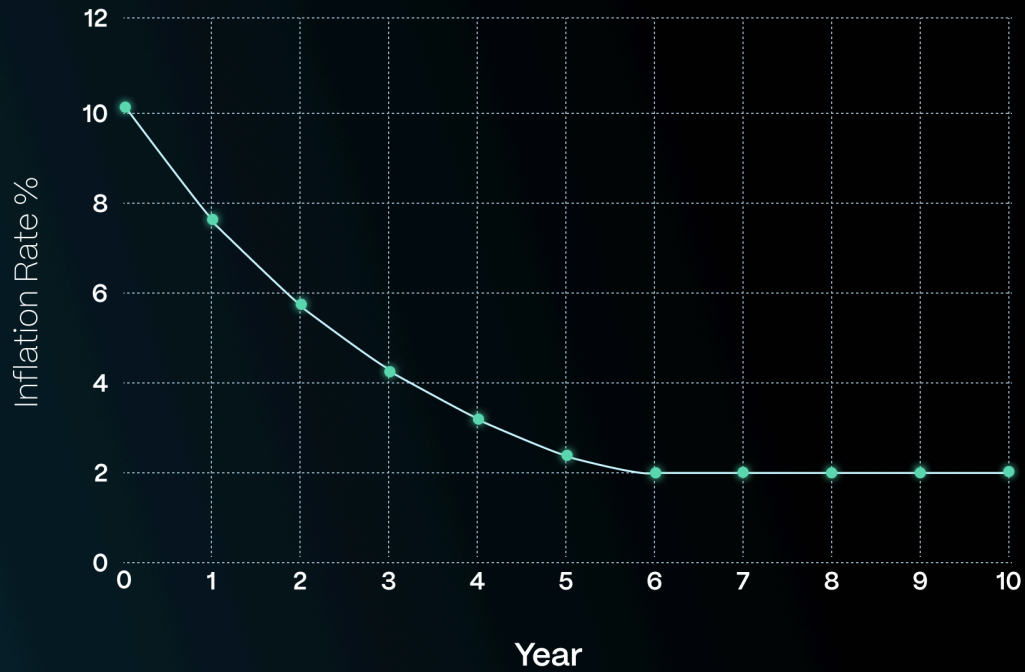
## **Inflation and Staking**

The system will start out with high inflation in order to incentivize early participants with high APYs and make them strong owners and participants of the network. Inflation will be initially set at 10%. The inflation rate will decay by 25% per annum for each successive year until it reaches the terminal rate of 2% per annum. SKR will employ linear inflation, as opposed to compounding. For clarity's sake, this means that with an initial supply of 10bn, the total supply at the end of year one will be 11bn.

Similar to the Solana network, stakers will be locked up for one epoch before they are able to unstake. The length of an SKR staking epoch will be 2 days.

# Seeker

## SKR Inflation Rate



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In order to bootstrap the Guardian curation mechanism Solana Mobile will serve as the initial Guardian charging a zero-based commission, such that all staking rewards are distributed back to stakers to promote ecosystem growth and participation, while helping build out a third-party Guardian network.

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