

Rootstock Global Wallet: Final Project Report

Total requested across the full engagement: \$9,250 (down from the \$20,000 originally authorized)

Over the past six months, Blockscout built and ran a Wallet-as-a-Service pilot for Rootstock: an embedded, white-labeled global wallet meant to make onboarding easier, give developers a shared SDK, and test whether gas sponsorship and DApp integration could drive real ecosystem growth. This report summarizes what we built, what it did and didn't accomplish, and closes out the grant.

What We Built

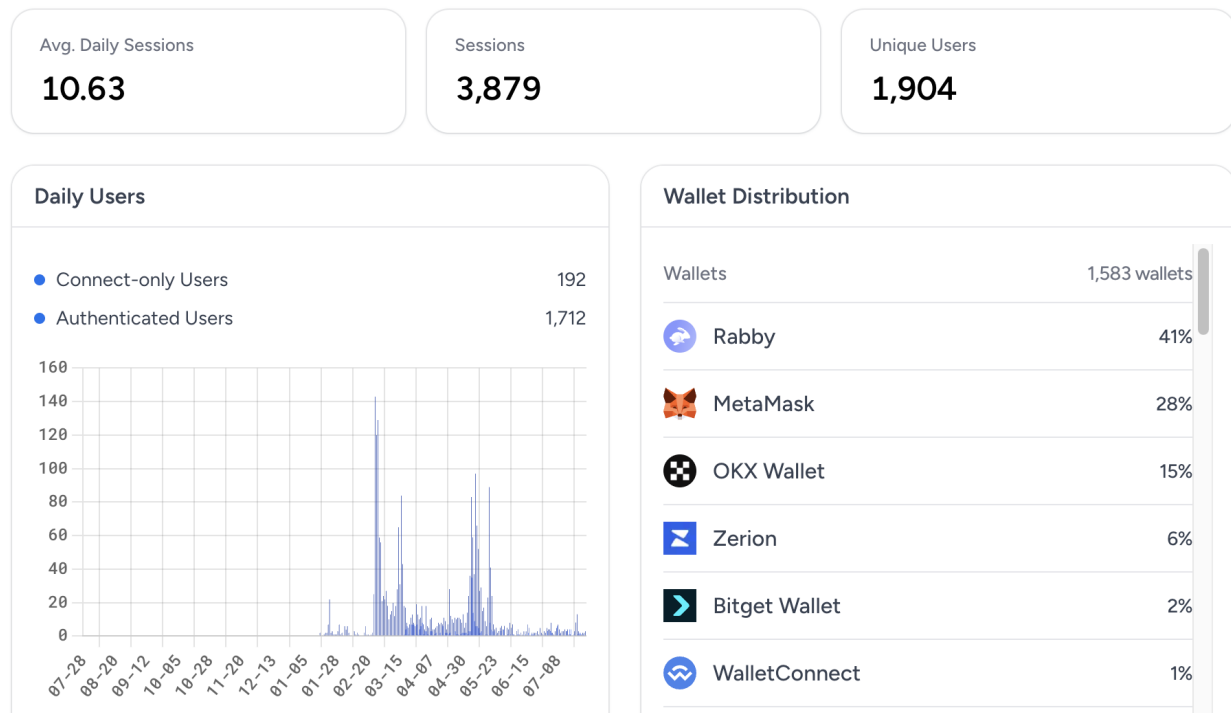
- **Standalone wallet and white-labeled SDK:** a Rootstock-branded, embedded wallet (rootstock-wallet.blockscout.com) published as @blockscout/rootstock-global-wallet on NPM, supporting email, social, and passkey login alongside external wallet connections.
 - **Full explorer integration:** users can log in and interact on-chain directly inside the Rootstock Blockscout explorer using the Global Wallet, no separate wallet required.
 - **Fiat on/off-ramp:** a working integration with Onramp for ARS/RBTC, live both standalone and inside the wallet. This closes out the on-ramp commitment made in the January proposal revision.
 - **Account abstraction and gas sponsorship infrastructure:** built on Zerodev after our original partner, Gelato, discontinued its sponsorship program mid-pilot. The infrastructure works; actual usage did not (see below).
 - **Two acquisition campaigns:** an M1 badge campaign (738 mints) and an M2 badge campaign (493 mints, 327 specifically via the Global Wallet), each backed by a blog post, X promotion, and newsletter reach (~300K and 315K subscribers respectively).
 - **One live mainnet DApp integration:** Swapscout, integrated since M2 and still the pilot's only production DApp usage outside the explorer itself.
 - **Two testnet DApp integrations:** Tropykus completed a full testnet integration before the project shut down in May 2026. Separately, the Rootstock Yield Vault, an independent ERC-4626 multi-protocol vault project, signed a Letter of Intent with Blockscout and ran a complete testnet flow (connect, deposit, withdraw) using the Global Wallet SDK. This is the most recent integration in the pilot (July 13, 2026) and remains testnet-only pending that project's own audit and mainnet deployment.
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Usage and Reach

2,349 total authenticated users signed in and proved wallet ownership over the course of the pilot.

Two usage snapshots from different windows give a fuller picture:

- **April 27 – May 27, 2026 (M2 badge campaign window):** 43 average daily sessions, 1,291 total sessions, 790 unique users (679 authenticated, 111 connect-only). Of 674 tracked external wallet connections: Rabby 42%, MetaMask 28%, OKX 15%, Zerion 5%, Bitget 2%, Trust 1%, Brave Browser 1%.
- **Longer pilot-to-date window:** 3,879 total sessions, 1,904 unique users (1,712 authenticated, 192 connect-only). Of 1,583 tracked external connections: Rabby 41%, MetaMask 28%, OKX 15%, Zerion 6%, Bitget 2%, WalletConnect 1%.



Dynamic dashboard: pilot-to-date session, user, and wallet distribution data.

The 43/day figure is specific to the badge campaign's active month, while the longer window averages in stretches between campaigns. Usage spiked around each promoted event and didn't sustain at that level in between. Most of the user base authenticated through the embedded Global Wallet in the explorer rather than an external wallet connector in both windows.

Retention: Across the whole population: 431 return users (18.4%, or 398 at 17.0% on a distinct-day basis) against a 10% target, with a median return gap of about 43.5 days among users who came back, and 244 users still active after 4+ weeks.

This is an improvement relative to the 213 return users and 35 four-week-active users cited previously, but is driven mostly by a longer engagement term. Users who signed up in January and February, the first roughly 500 users, now show 36 to 38% return rates and 27 to 34% still active after a month.

Acquisition segmentation: the 327 Global-Wallet-linked M2 badge mints are the primary channel we can look at for the closest thing we have to real channel attribution, about 14% of total authenticated users can be tied directly to that one campaign.

What Didn't Work

DApp integration mostly stalled due to lack of interest. Tropykus completed a real testnet integration and then shut down before reaching mainnet. Money on Chain, our most viable remaining candidate, is blocked on rLogin, an unmaintained login module with years-old dependencies that we can't take on updating within this grant's scope. Everything else in the outreach pipeline (OpenOcean, Aera, Mellow, Sideshift, Bedrock, Rif, Merkl, Avalon, Gamma, Layerbank, Sovryn, Woodswap, Boltz) ended in no response, disinterest, or a technical incompatibility on their side. The one bright spot is the Rootstock Yield Vault, an independent ERC-4626 multi-protocol vault project which used the SDK to incorporate the wallet.

Gas sponsorship didn't move usage. It went live on mainnet via Zerodev, and total sponsored transaction volume came to less than \$1. This matches the skepticism raised by ChronoTrigger, PGov, and Axia about whether sponsorship was worth funding relative to alternatives like fee-in-ERC20 or auto-swap to RBTC. We wouldn't carry it forward in its current form.

Market conditions were a headwind. DeFi TVL broadly dropped from roughly \$115 billion in January to about \$70 billion, mirroring Bitcoin's more than 50% drop from its October all-time high, and Rootstock's own chain showed the same pattern of TVL pressure and net bridge outflows. This doesn't explain away the numbers above, but the pilot ran during a period when on-chain activity was contracting industry-wide, not just on Rootstock.



Rootstock chain-wide account growth, activity, and new-account creation (Feb-Jul 2026), via Blockscout.

Cost and ROI

Metric	Calculation	Value
Cost per acquired (authenticated) user	$\$9,250 / 2,349$	~\$3.94
Cost per returning user (any return)	$\$9,250 / 431$	~\$21.46

Metric	Calculation	Value
Cost per user retained 4+ weeks	\$9,250 / 244	~\$37.91

Final Ask

Milestone	Delivered	Ask	Status
M1: Standalone wallet, SDK, tracking	Jan 28, 2026	\$4,750	Paid
M2: Explorer integration, retention, DApp outreach	Apr 28, 2026	\$3,500 (reduced from \$8,000)	Paid
M3: Gas sponsorship, mainnet DApp integration, final reporting	Jul 28, 2026	\$1,000 (reduced from the \$5,250 plan)	This report
Total		\$9,250 (down from \$20,000 authorized)	

The M3 ask covers only a portion of the subscription costs related to the dynamic wallet integration. Overall, Blockscout has spent more than 10K in direct costs to the wallet provider (not including developer/integration time) to complete the pilot. Gas sponsorship drew under \$1 and the mainnet DApp integration target wasn't met, so we're not asking for those line items.

It is now up to the Rootstock community whether or not to proceed with the ongoing costs to support the Global wallet. We have setup the infrastructure and ran several campaigns to attract to users to the chain. However, additional marketing campaigns and adoption from Rootstock Dapps could go a long way to increasing usage and utility of this wallet.

Recommendations

1. **Get rLogin updated.** The concrete, actionable blocker standing between the wallet and its most promising DApp partner (Money on Chain). If the RSK team can take this on, it unlocks integration work that's otherwise stalled.
2. **Drop gas sponsorship in its current form:** under \$1 in usage against a \$2,000 budget line is about as clear a signal as this pilot produced.
3. **Build channel-level attribution into any next phase,** using the 327 Global-Wallet badge mints as a starting template, so acquisition spend can be tied to retention outcomes rather than just signups.
4. **Weigh partner-continuity risk in future DApp targets:** Tropykus completed real integration work and then shut down before reaching mainnet.
5. **Agree on a stop/continue threshold tied to cost per 4-week-retained user** in advance of any next phase, rather than reassessing case-by-case.

Links

- SDK: [@blockscout/rootstock-global-wallet](#)
- Standalone wallet: [rootstock-wallet.blockscout.com](#)
- Original proposal: [gov.rootstockcollective.xyz/t/2512](#)