

ZCON

BARCELONA

PRESENTED BY
THE ZCASH FOUNDATION

— 2023 —





Nighthawk's Roadmap for Zcash

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Who are we, what we do

Nighthawk projects built by **privacy-focussed, Zcash users**

Wallet started out as a hackathon project organized by ECC in 2020, and funded via Zcash Foundation in 2020, Dev Fund in 2021 and 2023

Goal: Increase shielded ZEC usage via **User education, Easy-to-use apps** and **Direct User Feedback**

Contributors:

12 developers from 7 countries

13 translators, 8 languages





Grant application, restructure team with partial funding, setup new infra

Block Explorer & Infra support, Soft launch updated wallets with Unified Addresses

Funding new initiatives and collaborations with partners



Q1 2023

Q2 2023

Q3 2023

Q4 2023

Q1 2024

Deploy lightwalletd infra and security audit, ZcashBlockExplorer.com Testnet

Third-party SDK integrations, wallet maintenance and security audits

Wallet





Product Development Approach

- Leading development of native iOS & Android wallet projects
- Elixir/Phoenix: ZcashBlockExplorer.com : mainnet & testnet
- Thorchain BiFrost, Golang implementation, Thorchain interface libs, ancillary libraries development & Xchain.js wallet for Zcash
- Co-hosting Light Client Working Group to formalize standards & collaboration in the Zcash wallet ecosystem

Platforms - Kotlin, Swift, TypeScript, JavaScript, Elixir, Phoenix, Python, Kubernetes, Docker



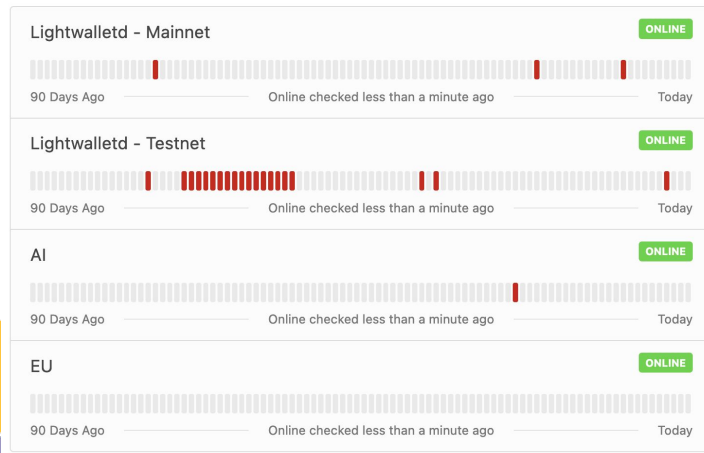


lightwalletd.com

- Public Goods for the Zcash ecosystem
- Started with one North America server
- Now present across 4 continents
- Kubernetes based deployment
- Critical service maintenance and high service availability goals of 99%+
- Status Page status.lightwalletd.com
- Quarterly Service Transparency Reports



Location	Host	Port
North America	mainnet.lightwalletd.com	9067
North America	testnet.lightwalletd.com	9067
North America	na.lightwalletd.com	443
South America	sa.lightwalletd.com	443
Europe & Africa	eu.lightwalletd.com	443
Asia & Oceania	ai.lightwalletd.com	443





ZcashBlockExplorer.com

- Community Driven Requirements
- First explorer to support NU5
- No logging or trackers
- Open APIs
- Testnet support!
- Build integrations with Zebra
- Explore ZSA & IBC support

Zcash Testnet Block Explorer

Orchard Pool: 37785.39445969 TAZ

Blocks: 2430223

Mempool Transactions: 0

Blockchain Size: 4.63 GB

Recent Blocks

HEIGHT	HASH
2430223	001e586da9c8005637187da6832ba3d0787c2a7013f92ec0e41f238130ffa40b
2430222	0014a1098b7d805ea873a93606c3fd12995dacff0a0834b2b8ec9f72a2dc93
2430221	001c4cfb9a2f305f9224ba8141358a2edf802392ab0af718109f4b29225ef52
2430220	000724a12a0944ab37978c07f46eb1c254c6e90c74338e043f206cae5dca7f
2430219	001ecb02c617952387df58dd406ea2d0a071718242f5abfe4d03830449242ec7

Zcash Block Explorer

Orchard Pool: 89773.60806707 ZEC

Blocks: 2160633

Mempool Transactions: 389

Blockchain Size: 243.38 GB

Recent Blocks

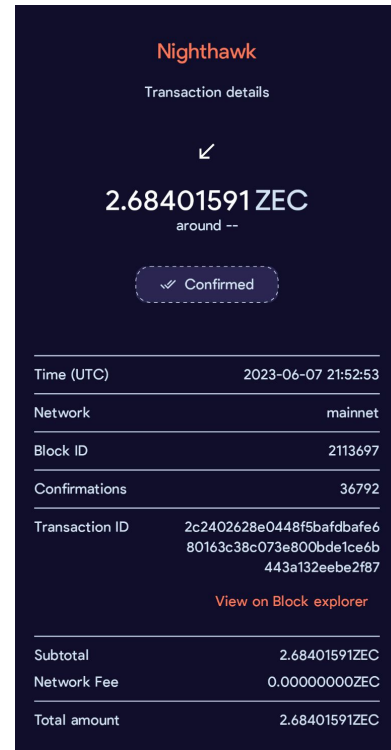
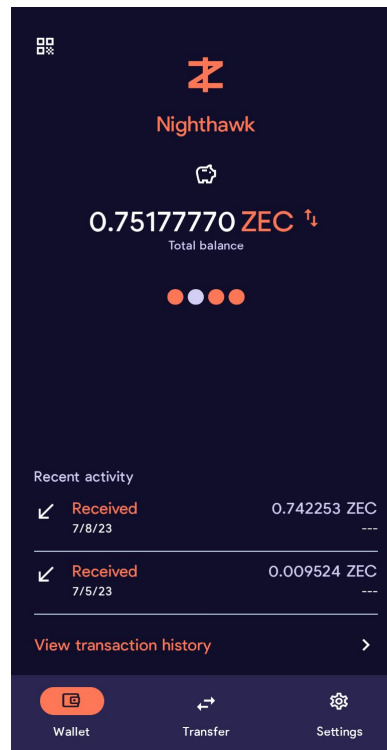
HEIGHT	HASH
2160633	00000000016a7e9cabd74e44cf0b70cbb458ea7c4668b8b03dac926940c20e9f
2160632	0000000000aba85e02b7b8feddf9858ad56ed343fd2f64d39cc0be8c284fa5a
2160631	000000000025589fcb5d165e81bbe6752ca851c90056cad6b44ed5d34d8d773b
2160630	00000000001191ca1e78b9beb34e23025e1ee5ac4afc8a8501ca10d1ceb999d
2160629	0000000000501a9a94e023f1c240d849ecbfab4031e5460a8d638bb6bc5d1





Nighthawk Wallet

- Shielded-by-Default
- All Transparent funds need to be Shielded before spending
- No personal info collected, none sold
- Warn users of potential data leaks deshielding and third-parties opt-in
- Nighthawk: Your go-to wallet for all your shielded transactions





Benefits of shipping a mobile-first experience

- Exceptional mobile app experience with a native app
- Design language familiar to users
- Integration with device APIs - notifications, deep links, etc.
- Performance - multi-threading, strict-type & OOP
- Security - identify errors and loopholes sooner
- Long term - supported by Google and Apple core mobile platforms





Building the future

- Mobile SDK development: Unlock new use cases and contribute upstream
- Contribute to ZIP review and protocol improvement
- New integrations: Network Level Privacy with Tor/Arti and Nym Protocol, ZSA support, FROST Multi-sig use-case designs and development, ZSAs
- Ecosystem Partnerships to introduce new use cases: Flexa SPEDN, Thorswap, Handshake
- Extend user applications: Apple Watch/Google Wear and iPad PoS apps
- Most demanded Private Messaging app!





Thank you!

nighthawkapps.com

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Open discussion to help chart
user driven features

Brainstorming

With Joel Valenzuela

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