



“ Tokenization of asset classes offers the prospect of driving efficiencies in capital markets, shortening value chains, and improving cost and access for investors.”

Larry Fink - Chairman of the Board Black Rock

The digital asset market, consisting of real-world assets and the DeFi, CeFi and crypto markets, is increasingly growing together. Investors are increasingly investing in both markets, which requires a transparent overview of all markets, investments and the associated custody solutions.

This development is also reflected in the high-net-worth private client segment, where cryptocurrencies and NFTs are gaining in importance alongside traditional assets. Institutional financial service providers are recognizing the need to diversify their portfolios to meet this development. With crypto transactions taking place outside the traditional banking system, reconciliation between cash and crypto holdings is essential.

Challenges

- Portfolio or real-time analyses are only possible to a limited extent for both digital assets and traditional assets.
- The holdings are distributed across various blockchain protocols in different wallets. Valuation is complicated by numerous price sources such as Binance, Coinbase and CoinGecko.
- Smart contracts must be analyzed for the evaluation of DeFi protocols such as lending or borrowing.
- Various node providers such as Infura, Etherscan, NowNodes, Blackdaemon and Moralis provide access to OnChain data



Information

In order to obtain relevant data in context, a considerable investment of time is required to obtain and process the relevant data.



Accounting

The crypto custodian must approve transactions, resulting in a discrepancy between the on-chain balance and the approved balance.



Participants

With a standardized view, decisions for day-to-day business can be made more quickly, as many parties are involved in a transaction.



Data sources

The data is distributed across numerous blockchain protocols, wallets, exchanges and external blockchain storage.



Legal provisions

The reporting must ensure that all legal requirements are met.

Solution

The OmniCryptoHub is an orchestration platform that enables seamless data integration across of various chains, including Bitcoin, Ethereum including L2 (Polygon,Base ..), Litecoin, Dashcoin, Dogecoin, exchanges and wallets, with a focus on holdings, transactions and their valuations.

Various node providers such as Infura, Etherscan, NowNodes, Blackdaemon and Moralis provide access to OnChain data and enable access to smart contracts. For exchange data, OCH uses CoinGecko, DefiLlama, Coinmarketcap and Binance.

Based on these APIs, OmniCryptoHub collects data such as historical prices to determine various risk and performance indicators (e.g. total return, Sharpe ratio, volatility, maximum drawdown, VaR, etc. for different time periods). In addition, OmniCryptoHub analyzes historical transactions to track the performance of portfolio wallets.



Benefits of OmniCryptoHub



Portfolio analysis

Optimized portfolio analyses, real-time valuations and risk-return analyses in context.



History views

Perform correlation analyses for all available tokens, coins and cryptocurrencies over periods of up to 2 years.



Accounting

The clear distinction between on-chain data and confirmed data enables a transparent presentation. Unconfirmed transactions are temporarily frozen for further trading.



Price sources

With access to personalized price sources, you can ensure that you always have accurate and up-to-date market data.



Legal provisions

Audit-proof reporting, automated and transparent, ensures compliance with legal regulations.

Our solution provides transparent access to a comprehensive database and optimizes the data collection process.

It enables the encapsulation of various APIs for generation and automated, logical workflows.

The platform provides a robust foundation for analytics, back-office processes, billing and reporting.

It supports seamless integration with new technologies such as AI and opens up innovative scenarios through flexible plug-in API layers.

Why think tank?

We are experts in banking and capital market technology and solutions.

We have decades of experience with comprehensive processes and technologies in the field of DLT & blockchain.

We accompany and support our customers throughout the entire process, including the integration and go-live of the platform.

We are part of an ecosystem of innovative partners, FinTechs and start-ups that enable our customers to successfully participate in international markets.



Sarah Rentschler-Gerloff

Head of Digital Assets & Custody

Phone: +49 152 01758803

sarah.rentschler-gerloff@thinktank.de

www.thinktank.de

