

QUARTZ



Quartz Crypto Services

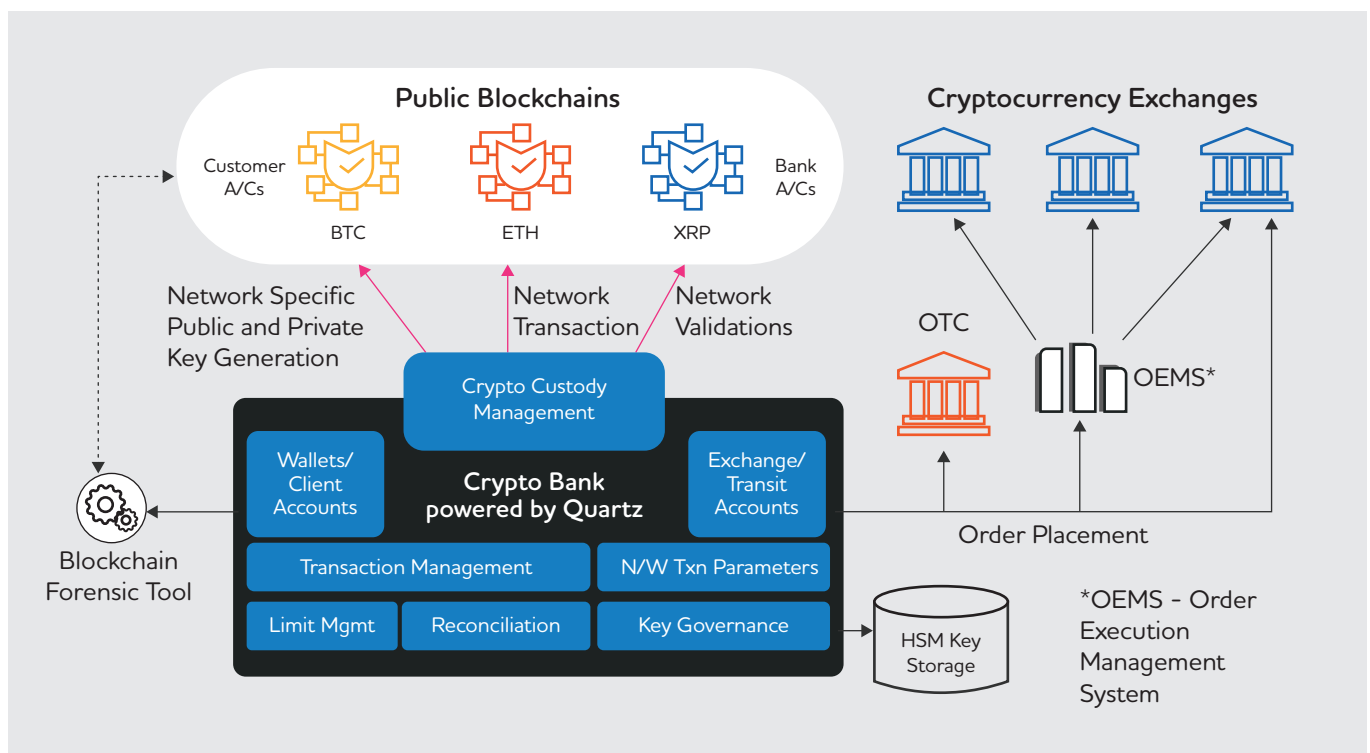


Challenge

Crypto assets are becoming increasingly popular amongst investors. While many still view this as an alternate asset, an accelerated adoption of these by both retail and institutional investors clearly indicates that crypto assets are set to become mainstream products. To ride this wave, banks and financial institutions alike have expanded their offerings to include this hitherto niche asset class. These regulated financial institutions are in need of a robust, flexible and functionally rich solution to manage Crypto assets for their customers, in order to facilitate portfolio diversification and provide investment avenues.

Solution

Quartz Smart Solution for Crypto Services is an end-to-end, integrated and secure crypto custody and transaction processing solution, for banks and financial institutions. With Quartz for Crypto Services, financial entities can streamline crypto asset transfer by seamless integration with multiple public blockchains like Bitcoin, Ethereum, Ripple, Bitcoin Cash etc. The solution can provide connectivity to multiple crypto exchanges and OTC Desks to enable buy and sell of crypto assets at best rate available at the market.



The solution provides the following features:

API based integration with banking/position keeping applications: The solution provides simple REST APIs to connect with existing banking/custody/position keeping solutions and Channels to provide a seamless experience for customers and enables them to view their digital assets alongside the other traditional assets

Secure Key Storage and Governance: The solution allows secure storage of private keys on Hardware Security Module (HSM) devices with **multi signature authorization** for key governance, thereby providing enterprise grade secure custody for end customers.

Connectivity with multiple trading venues: The solution adapters enable connectivity to various Exchange Venues, Order Execution Management Systems (OEMS) and Liquidity Providers (OTC) thereby facilitating best execution for crypto trades.

Safeguards against fraudulent transactions: The solution screens each blockchain transaction with an external wallet address through blockchain forensic tools to safeguard from financial crimes.



Benefits

- Ready connectivity to public blockchains, HSM device and select marketplaces to launch digital asset custody and transaction service.
- Flexible hosting options – Cloud/ On-premises to suit the changing business need. The solution is also available in a multi-tenant SaaS model, and can also be white labelled to personalize services for customers.
- The solution supports both omnibus and segregated wallets. The solution has the flexibility to configure the custody models based on jurisdictions and asset types.

Quartz Advantage

- TCS' rich experience in custody and banking in multiple geographies has ensured that Quartz solutions are tailor made to meet the needs of typical, regulated financial entities.
- The solution can be integrated easily with third party banking and custody systems, in addition to ready integration with TCS BaNCS solutions.
- The solution provides the facility for administration and monitoring of the ecosystem through the Command Center.

About Quartz

Quartz provides foundational technology, tools and business components that harness the power of next-gen technologies including DLT, AI/ML (including GenAI) for organizations across varied industries, including Financial Services, Banking, Supply Chain, Energy & Utilities and eGovernance. Backed by awards from Juniper Research (Gold Winner for Digital Identity Innovation 2024), the Asian Banker (Best Fraud Prevention Technology Implementation 2023), Financial Technology Forum (Best New Post Trade Solution of the Year 2022), Asset Servicing Times (Outstanding Innovation Award 2022) and recognition from Analysts (ranked #1 Best Performing Fraud Management Solution by IBS Intelligence 2022) Quartz can help organizations operate at the forefront of technology innovation.

To know more about Quartz, please write to us at tcs.quartz@tcs.com or visit our website <https://www.tcs.com/quartz>

About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services is an IT services, consulting and business solutions organization that has been partnering with many of the world's largest businesses in their transformation journeys for over 56 years. Its consulting-led, cognitive powered, portfolio of business, technology and engineering services and solutions is delivered through its unique Location Independent Agile™ delivery model, recognized as a benchmark of excellence in software development.

A part of the Tata group, India's largest multinational business group, TCS has over 601,000 of the world's best-trained consultants in 55 countries. The company generated consolidated revenues of US \$29 billion in the fiscal year ended March 31, 2024, and is listed on the BSE and the NSE in India. TCS' proactive stance on climate change and award-winning work with communities across the world have earned it a place in leading sustainability indices such as the MSCI Global Sustainability Index and the FTSE4Good Emerging Index. For more information, visit www.tcs.com

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