



Advantages of a blockchain built for securities



Institutional-Grade Safekeeping

Challenge with general purpose blockchains

Regardless of the asset type, security is always top of mind, but regulated assets present additional complexities, especially when issued or acquired by institutions rather than individuals. In a [recent Deloitte survey](#), security concerns were noted as an issue hindering widespread blockchain adoption by 66% of respondents—“more than any other source of concern.” When security tokens first came to market, it wasn't possible to recover assets in the event of a loss of private key or to segregate duties. While we've come a long way, most chains are still broadly intended for use by individuals and don't offer the deeper enterprise safeguards that institutional users require.

How a purpose-built chain can overcome it

Polymesh is purpose-built for institutional management of security tokens, and numerous mechanisms have been built into its core to help minimize external threats and maintain internal divisions of responsibility.

Portfolios

Built for enterprise, Polymesh lets issuers and investors organize assets into portfolios and assign granular permissions however they see fit. This structure allows large organizations to segregate duties and ensure each individual or organization can only access specific assets or perform

specific actions, without compromising on compliance by using multiple accounts. Portfolios can also be used to efficiently grant custodial access to multiple assets.

Multi-signature

Usually, transactions are 'signed' by a single account. Multi-sig based accounts can be more secure because they require a combination of multiple keys to sign a transaction for it to be considered valid by the blockchain—acting as a failsafe against a single point of failure and spreading responsibility between multiple parties. When layered on top of a general-purpose chain through smart contracts, this functionality adds significant complexity, cost and processing time. Polymesh bypasses this issue by natively supporting multi-sig based accounts in its base layer.

66%

of institutions cite security as a top concern hindering further adoption of blockchain technology.

Layer 2 friendly

Polymesh offers an extensible and modular framework that brings best-of-breed security token management capabilities and offers open integration with other proprietary solutions. Polymesh can connect seamlessly with bespoke safekeeping solutions to protect assets from multiple angles.