

Symbol hybrid blockchain delivers the best of both worlds.

	 ethereum*	Symbol <small>From NEM</small>	 HYPERLEDGER**	
Immutability	★★★★★ All smart contract and transaction code is on the public chain, verifiable by anyone and unchangeable.	★★★★★ All transactions are on the public chain, verifiable by anyone, off chain logic creates the transactions to allow full immutability.	★★★★★ There is no public chain and permission is required to access and verify.	★★★★★ Fully Centralised - transaction privacy by sharing transactions only with parties involved.
Security	★★★★★ All on-chain security features must be individually added to each project using smart contracts. Eth 1.0 does not include Multi-sig.	★★★★★ Security features are built into the protocol. These include multi-sig, encrypted messaging, and automatic escrow swaps.	★★★★★ Security features are mostly dependent on company IT security external to the blockchain project.	★★★★★ High level of regulatory driven security features built in to the wholly private network.
Flexibility	★★★★★ Ethereum scales through a combination of block size, block times and data compression.	★★★★★ Symbol performs well and is very flexible due to its architecture and through easy plug-ins.	★★★★★ Hyperledger uses sharding solutions allowing parallel transactions. Can create security issues through shard takeover.	★★★★★ Corda is built for peer to peer transactions and all participants need to be onboarded to the network meaning complexities when scaling participants.
Low transaction cost	★★★★★ As network activity increases, the network slows and transaction fees sharply increase.	★★★★★ Transaction fees are lower than Ethereum's and can be more easily managed through a private/public hybrid solution and therefore less likely to spike during high network activity.	★★★★★ Since there's no public chain, there are generally no transaction costs, although administrators pay for all other costs of running the network.	★★★★★ Corda open source is free to use - you pay for your own hosting and maintenance. Corda Enterprise is a paid for service and costly to run.
Error handling	★★★★★ Ethereum smart contracts have been subject to bugs and there are no patches or fixes, with new contracts and forks needed each time an error is found.	★★★★★ Symbol's flexible architecture allows users to fix bugs via plug-ins and re-launching, saving time and money.	★★★★★ Hyperledger private chains usually exist within a company network making them safer, but they can still be exposed to human error.	★★★★★ In Corda, smart contracts not only consist of code but additionally are allowed to contain legal prose, which can lead to human confusion and error.
Programming language	★★★★★ Ethereum uses EVM (Ethereum Virtual Machine) which allows users to write in multiple programming languages, including Solidity, Vyper & Bamboo.	★★★★★ Symbol is written in C++, & supports Javascript, making it ideal for integrating with current Enterprise business systems.	★★★★★ Hyperledger Fabric supports Javascript, Java, and Go.	★★★★★ Corda is written using Kotlin, a programming language from JetBrains that targets the JVM and Javascript.
Confirmation and finality	★★★★★ Confirmations are about 15 seconds, but as a POW chain cannot achieve finality. Control of hashing power can change history and it is not configurable.	★★★★★ Fixed finality currently takes up to 8 minutes and Symbol is highly configurable.	★★★★★ Latency is dependent on how the private network is configured.	★★★★★ Corda transactions are final at the time of signature by the service and depends on configuration of network.
Compatibility	★★★★★ Eth uses EIP standard track for any change that affects compatibility. Eth needs an oracle for compatibility which must sit off chain, making it slow and complicated.	★★★★★ Symbol has native compatibility with public and private chains, and through its plug-ins can have an oracle that sits on chain, making it simpler and quicker to connect into other chains.	★★★★★ Protocol is not designed to be interoperable with any public blockchain or other blockchain assets.	★★★★★ Corda can enable a global network of nodes that are free to transact openly with any other node within supporting private business networks.

* Data based on Ethereum 1.0

** Hyperledger is a private version of Ethereum and comprises various frameworks including Fabric, Sawtooth, Burrow & Grid.