

Blockchain: Beyond Bitcoin

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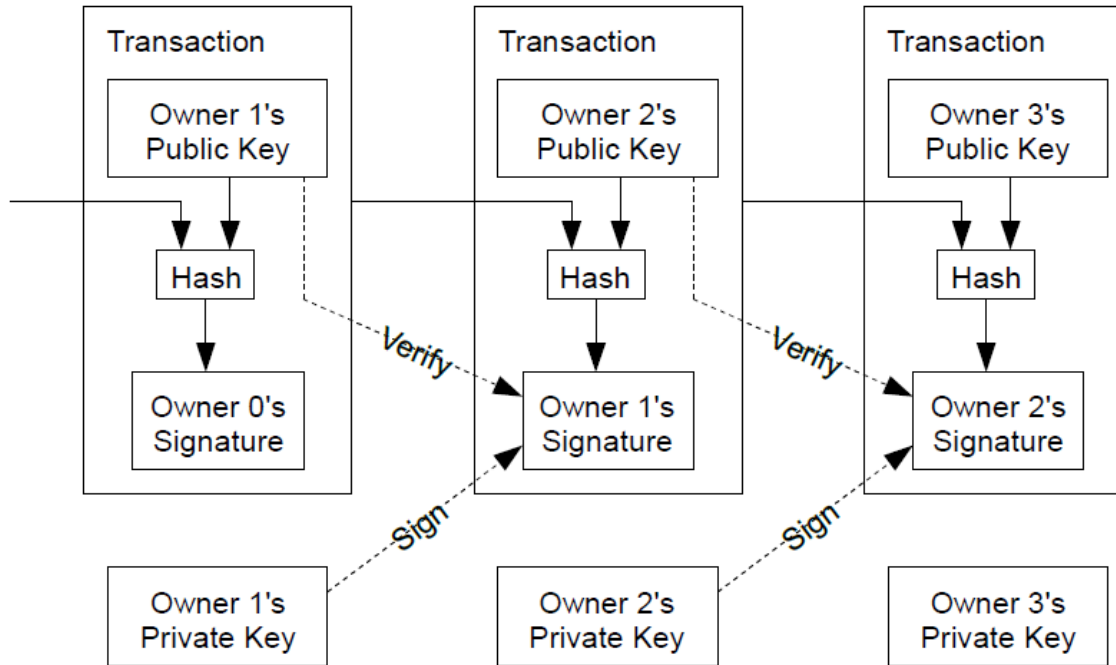


- ◆ Over 25 years in InfoSec, IT, Finance
- ◆ Tech Risk Pro performing reading, writing, 'rithmetic on risk and security matters
- ◆ Former Marine (Gulf War veteran), 'Big Six' IT Auditor (PwC), Internal Auditor (GMAC Mortgage), Security Architect & Director (Wyeth)
- ◆ BBA Finance, University of Notre Dame; reformed CISA and CISSP

Blockchain: Beyond Bitcoin

- ◆ The biggest breakthrough with Bitcoin isn't the virtual currency – it's the blockchain behind it, which some call the future of the Internet. Many organizations are probing how this nascent peer to peer method of securing transactions could revolutionize parts of their business. This cutting-edge discussion, led by IDC's Pete Lindstrom, will explore the potential of blockchain in industries such as financial services, health care and more, from use cases to stumbling blocks and what's needed to move it forward.
- ◆ [Paul Friedman](#), Vice President, Business Technology Leader, Humana
[Michael Garcia](#), Vice President, Development Services, Fannie Mae
- ◆ Moderator: [Pete Lindstrom](#), Vice President, Security Research, IDC

Core Blockchain



Source: Nakamoto, S. "Bitcoin: A Peer-to-Peer Electronic Cash System"



Blockchain Terminology

- ◆ Transactions: core records of assets to transfer
- ◆ Blocks: groups of transactions
- ◆ Nodes: listen, validate, work, offer blocks to blockchain
- ◆ Blockchain: distributed ledger



Key Questions for Blockchain

- ◆ How does a block get on a blockchain?
- ◆ What is the trust level for the nodes?
- ◆ What is in the payload of the transaction?
- ◆ How important are time and sequence?

Blockchain Attributes

- ◆ Transaction Integrity
- ◆ Sequence / Provenance / Pedigree
- ◆ Distributed Consensus
- ◆ Incentives and Proof-of-Work