



**CLEVER Solutions Empowering Global Enterprises**

## Demystifying Blockchain



Business to business relations have always been difficult due to the fact that each business uses different methods to trace activities. This has led to the use of a trusted business in the middle. With each business using different ledgers and different content in a global environment, the result is inconsistent, inefficient, expensive and very vulnerable solutions. What was needed is a shared distributed ledger on a peer to peer network. But how do you achieve a distributed network and ledger that has agreement, ownership control, is tamperproof, and has a single source of authenticity?

The Internet again comes to the rescue with Blockchain. Many of you may think that Blockchain equals bitcoin, but in reality bitcoin is an application that uses Blockchain. Think of Blockchain as a new type of business network using a shared distributed ledger (AKA database). One key to the success and usefulness of Blockchain is that it keeps track of who owns what. Rather than a central database and administrator, the blockchain distributed ledger has a network of replicated databases, synchronized, and visible to anyone in the network.

Both private and public Blockchain networks exist. Business to business networks will rely on private Blockchain networks with Hyperledger technology a leader in this area.

The key components of a Blockchain are:

- Blockchain fabric
- Security and Crypto services
- Services
  - Membership
  - Consensus
  - Chaincode
  - Ledger
- Peers or network participants

Finance is using Blockchain to streamline settlements and improve accuracy. Healthcare is uniting diverse processes, improving data flow and providing accurate timely information to patients and health care professionals using Blockchain. Food suppliers can now track vegetables from farm, to processor, to distributor, to store using the Blockchain network.

As Blockchain becomes established and mature, its impact on all businesses small and large will be transforming.

## How can AES help your Blockchain Deployment?

[CleverView® for TCP/IP on Linux](#) has BlockchainView™ offering details on the blocks and their progression through the network.

- Number of blocks in the Blockchain, including the genesis block
- Hash of current and previous blocks
- Ability to query specific peer nodes
- Ability to scroll to the different blocks
- Verify is the Block is public or private
- Signature of the transactor
- Host or IP address and port of the peer

[Get More Information on CleverView for TCP/IP on Linux](#)

[Visit AES Website](#)

## Product Spotlight

[CleverView® for cTrace Analysis](#) and [CLEVER Mobile® for Trace](#)



CleverView for cTrace Analysis allows users to simultaneously schedule (start and stop) traces from heterogeneous systems providing end-to-end viewing of IP packet flows. The in-depth diagnostic capability and flow control details make this an essential trouble shooting tool for IT operations.

CleverView for cTrace Analysis has support for z/OS IDS Trace Analysis providing deep diagnostic capability into Intrusion Detection packets and new IDS filtering capabilities in Query Builder.

[Learn More about CleverView for cTrace Analysis](#)

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