

Blockchain - eSigned Smart Contracts using Blockchain

Blockchain has been a buzzword for the last couple of years arising out of the hype from Bitcoin. No doubt, the technology is promising as it allows for trust less-consensus between multiple parties based on peer-peer networking and secures hashes that cannot be altered by design.

As Governments embark on the Digital Transformation journey, increasingly Blockchain is a part of conversations for providing immediate consensus, real time information sharing and smart contracts which can trigger payments based on preset conditions. But in order for this technology to succeed, the biggest challenge is around identity verification and ability to prove ownership in the digital world.

eMudhra's emBlock allows organisations to readily deploy Blockchain networks in a few simple steps.

Deploy Blockchain based Smart Contracts using emBlock

emBlock is a Blockchain based system built on top of Hyperledger fabric that guarantees transaction immutability and publicly verifiable records at lower cost which will ensure better efficiency thereby ensuring seamless conduct of trade.

emBlock uses identity based Digital Signatures to ensure legal non-repudiation

Digital Signatures are created after verifying user identities and use asymmetric cryptographic key pairs. This ensures legal validity and non-repudiation



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<http://www.emudhra.com/products/blockchain.html>

Key Features

- **Plug and Play Deployment**
- **Support for legally valid Digital Signatures**
- **UI based configuration**
- **Easily Integrate Smart contracts with Business Workflows**

Implement your Blockchain network with emBlock



API based provisioning

emBlock allows provisioning of nodes required for Blockchain network



Access Control

Unlike public Blockchain like Bitcoin, emBlock allows access control mechanism to only need based access



Easy Deployment

Using a plug and play deployment, ensure legal non-repudiation and transaction immutability

Use Cases

◦ **Know your Customer & Customer Onboarding**

Incorporating intelligent software like chatbots and voice responders, companies can look beyond traditional PoS interactions to nurture and grow relationships with customers

◦ **Land Registration & Records Management**

Enabling authentication of credentials of users ensuring non tampering of database and transparency. Data can be verified without any human intervention, giving no scope for manipulation

◦ **Lending & Trade Finance**

By modeling self-executing contracts on the blockchain, parties across lending and trade finance continuum can automate contract compliance and ensure faster assured payments by preventing disputes that arise from various ambiguities

◦ **Internet of Things**

Creating the seamless fabric that helps expand the possibilities for people, society and the economy in our connected world