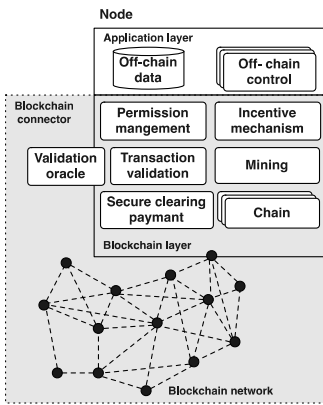
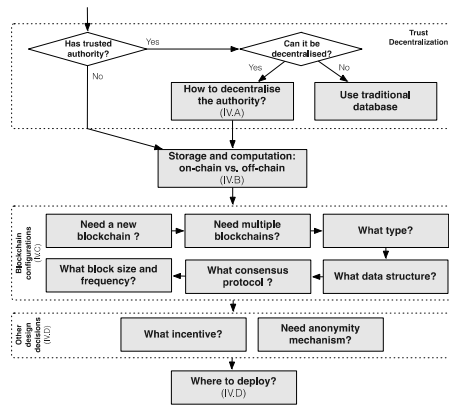


Architecting Applications on Blockchain

Blockchain as a Component



Taxonomy and Design Process

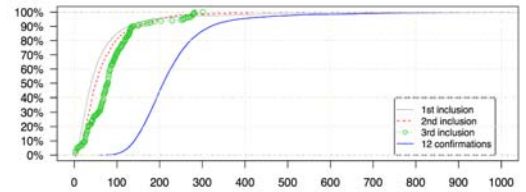


Blockchain Cost Model

Blockchain has a different cost model than conventional data storage. You pay for

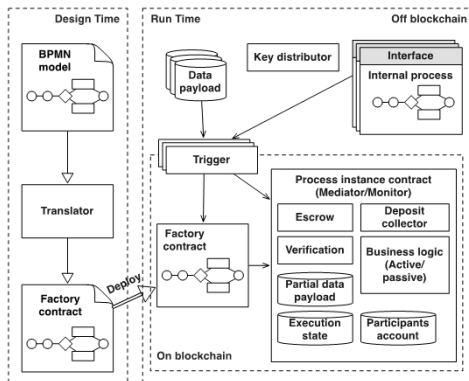
- Base cost for a transaction
- Transaction payload
- Smart contract function execution
- Function definition and address allocation

Blockchain Performance



Developing and Using Smart Contracts

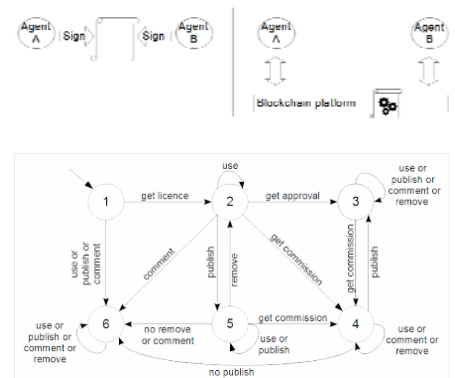
Business Process As Smart Contract



Model-driven Code Generator



Legal Contract



Trustworthiness of Blockchains

We are researching the trustworthiness of blockchains from two angles:

Formal studies of blockchain protocols to analyse their integrity, consistency, and non-repudiation properties, and to better understand the guarantees and limitations of existing protocols.

Empirical studies of the security of real-world public blockchains using live monitoring, log mining, behavioural analysis and visualization. We are researching patterns of use and misuse, and realistic threat models.



FOR FURTHER INFORMATION

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