

d-fine



d-fine Blockchain Solutions
Enterprise Blockchains

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Introduction

New technologies can be an enabler for new business models and more efficient processes. Distributed Ledger Technology (DLT) has the potential to help reinvent existing business lines through efficiency gains or reduced risk when applied in the right way. Novel (platform-) business models can be created that were not easily possible before. With our practical hands-on experience covering technologies like Hyperledger Fabric, Corda, Ethereum or IOTA, we will support you from the analysis of use cases, over end-to-end implementation, all the way to the integration with your existing systems.

Offering

- Full-service offering for DLT projects from vision and business model to implementation
- End-to-end implementation of IT infrastructure including set-up of the DLT layer, smart contract development and integration with existing infrastructure
- d-fine DLT lab environment for prototyping allows a rapid start of the implementation

References

Derivatives OTC trading blockchain prototype

We developed a prototype for trading derivatives of interest rate swaps on a blockchain platform. The prototype consisted of both an easy to use user interface as well as a blockchain-based backend that implemented the OTC trading process of interest rate swaps. Utilizing a hashing mechanism, we achieved duality between smart contracts and master agreements.

Blockchain proof-of-concept for financial market infrastructure

We developed and evaluated different business cases for using Blockchain and Distributed Ledger Technology, namely Ethereum and Hyperledger, in the context of financial market infrastructure: for real-time gross settlement systems and issuance of securities. With our client, we developed the prototypes end-to-end, from the user interface to the smart contracts and infrastructure setup.

Trade finance: implementation of a letter of credit on the blockchain

We developed a proof-of-concept for a trade finance platform based on Hyperledger Fabric. The prototype implements a letter of credit workflow with four different

participants: buyer, seller, buyer's bank and seller's bank. Each participant has a different view of the letter of credit and is allowed by the smart contracts and user interface to perform various actions at different times.

Hyperledger Fabric platform for *Schuldscheindarlehen* (SSDs)

For an Austrian banking group, d-fine built a platform for issuance of SSDs based on Hyperledger Fabric. Goal of the implementation was to represent an SSD fully digitally to streamline processes and improve client experience. Legal contracts are also represented digitally for a fully paperless issuance process. d-fine has supported the respective pre-study and the implementation from front-end to back-end including smart contract implementation.

Cross-currency swap as CorDapp

We developed a proof-of-concept for the lifecycle management of cross-currency swaps on the Corda platform. The swap parameters were recorded using the trading system Front Arena and afterwards issued on the Corda network using ISDA's common domain model to map the swap onto the respective CorDapp. Using the Ripple network and Corda's settlement mechanism, we implemented event-based handling of cash flows based on the settlement of IOU contracts.

Are you interested in making your vision a reality?

Please contact us:

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