# Untrusted B2B Collaboration using the Blockchain

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**Abstract.** Blockchain technology enables untrusting parties to have trusted communication. We use this to implement a conversion of BPM choreographies to smart contracts on the Ethereum Blockchain.

**Keywords:** First keyword · Second keyword · Another keyword.

## 1 Introduction

What is BPMN? What is Blockchain? What problems are there with BPMN that can be solved with Blockchain? What approaches exist currently (Caterpillar [1], Untrusted paper [2]) What is our general Idea? What are our results? (briefly)

## 2 Related Work

summarize untrusted paper summarize Caterpillar acknowledge their Work display the shortcomings
maybe also include Blockchain here?

## 3 Solution approach

basic understanding/ intuition -¿ make orchestration possible
use one contuous example
visualizations !!

## 4 Architecture

## 5 Evaluation

## 6 Conclusions

## References

1. López-Pintado, O., García-Bañuelos, L., Dumas, M., Weber, I.: Caterpillar: A blockchain-based business process management system. In: Proceedings of the BPM

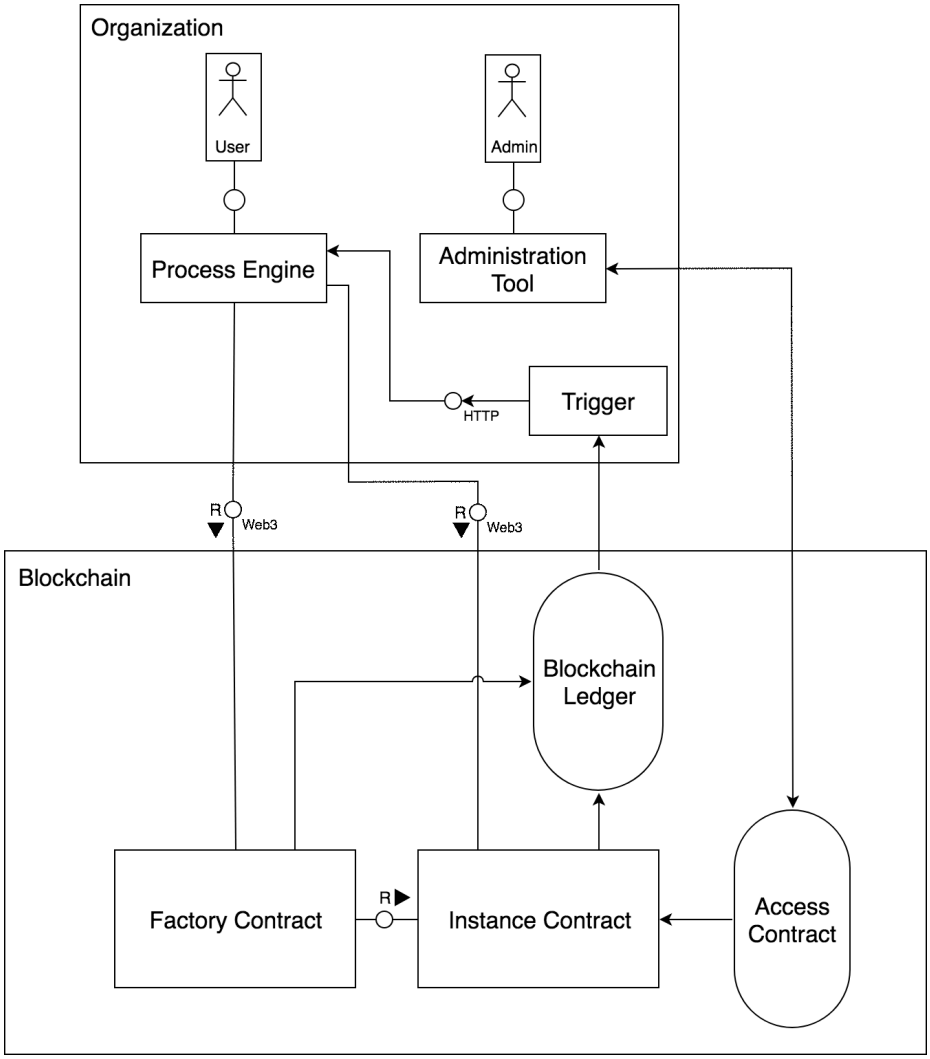


**Fig. 1.** The architecture of our design.

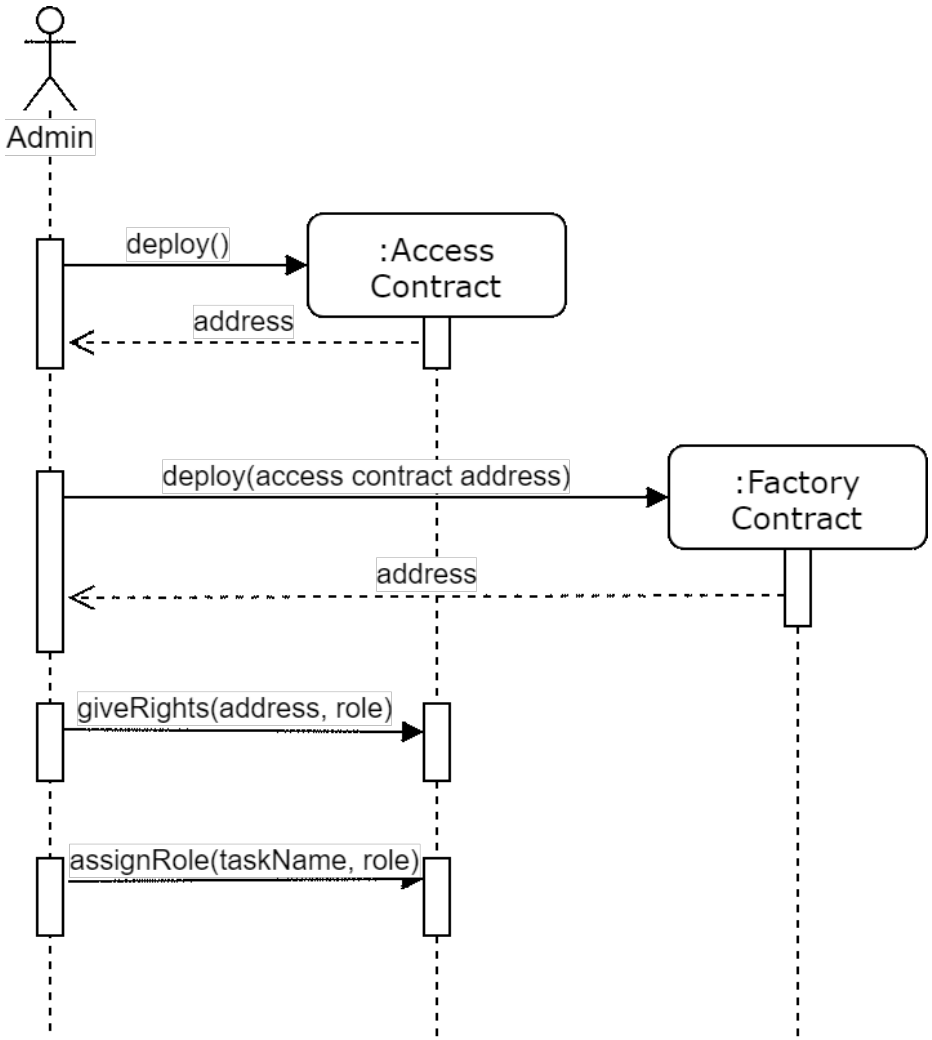


**Fig. 2.** An initialization process.

Demo Track and BPM Dissertation Award co-located with 15th International Conference on Business Process Modeling (BPM 2017), Barcelona, Spain (2017)
2. Weber, I., Xu, X., Riveret, R., Governatori, G., Ponomarev, A., Mendling, J.: Untrusted business process monitoring and execution using blockchain. In: International Conference on Business Process Management. pp. 329–347. Springer (2016)