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Outline and Topic Proposal

Firstname Lastname

September 30, 2019

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1 Scope of Work - 4 Questions

In this section the essence of the proposed work is described by answering four key questions.

What is the problem you want to address in your work? There is no suitable solution for a backbone system for large-scaling, performant and secure IOT usecases where multiple distrusting parties are involved.

Why is it a problem? According to XY there will be more than 30 billion IOT devices by 2025 in many areas of our everyday lives. The concept of IOT is still more theoretical although some usecases are already developed. To accomplish the full potential of the IOT sector a suitable backbone solution must be provided. Different vendors and service providers need a common plattform for connecting their devices, services, buiness logic as well as their customers and a suitable payment solution.

What is the solution you developed in your work? A set of pre-selected DLT solutions seem to be suitable for most of the above mentioned IOT usecases. Not only because they fullfill (most) requirements but promote themself as well-fitted for IOT usecases. In this work a selection of DLTs is analyzed for the requirements for specific IOT usecases. As an intermediate result a list of requirements for different IOT usecases is created and the selected DLTs are rated and checked for fulfillment. Finally the top three DLTs are evaluated, implemented in an exemplary IOT usecase. Performance tests verify the eralier created requirements. With this work the reader can evaluate DLT solutions for their suitability to be an IOT backbone solution as well as distiguish between IOT usecases which can benefit from DLTs and those who cannot.

Why is it a solution?

2 Preliminary Table of Contents

In this section the table of contents for the proposed work is described.

1. **Section 1 Name** insert brief description
   a) **Subsection 1 Name** insert brief description
   b) **Subsection 2 Name** insert brief description
2. **Section 2 Name** insert brief description

3 Relevant Related Work

In this section, identified related work is described.

[GZ17] insert brief description

[Zob15] insert brief description

References

[GZ17]   Paul Gruba and Justin Zobel. *How To Write Your First Thesis*. 1st ed. 2017. Springer, Sept. 6, 2017. 112 pp. ISBN: 978-3-319-61853-1.

[Zob15]   Justin Zobel. *Writing for Computer Science*. 3rd ed. London: Springer, Feb. 17, 2015. 300 pp. ISBN: 978-1-4471-6638-2.