

TCP PEP

Extension of a TCP Performance Enhancing Proxy to
Support Non-interactive Applications

Joe Bayer

Informatikk: programmering og systemarkitektur
60 ECTS study points

Department of Informatics
Faculty of Mathematics and Natural Sciences

Joe Bayer

TCP PEP

Extension of a TCP Performance
Enhancing Proxy to Support
Non-interactive Applications

Supervisor:
Michael Welzl

Contents

1	Intro	2
2	Background	3
2.1	TCP/IP	3
2.2	Congestion Control	3
2.3	mmWave	3
2.4	PEPs	3
2.5	0 RTT	3
3	Implementation Design	4
4	Evaluation	5
5	Conclusion	6

Chapter 1

Intro

Chapter 2

Background

2.1 TCP/IP

Acknowledgments are an integral part of TCP. ... Used for both updating the sliding window and congestion control.

2.2 Congestion Control

2.3 mmWave

Highly fluctuating bandwidth with wireless networks.

2.4 PEPs

2.5 0 RTT

0RTT Transport Converter [1].

Chapter 3

Implementation | Design

Chapter 4

Evaluation

Chapter 5

Conclusion

Bibliography

- [1] Olivier Bonaventure, Mohamed Boucadair, Sri Gundavelli, SungHoon Seo, and Benjamin Hesmans. 0-RTT TCP Convert Protocol. RFC 8803, July 2020.