TECHNISCHE UNIVERSITEIT DELFT

TI3800 BACHELORPROJECT

A non-centralized approach to Video on Demand on mobile devices

Orientation Report

Authors: Martijn Breet (1265458) Jaap VAN TOUW (1380753)

Supervisor: Cor-Paul Bezemer





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Preface

Chapter 1

Tribler

1.1 Introduction

Tribler is an application that enables its users to find, enjoy and share content through a P2P network. the application is currently available for Windows, Mac and Linux¹. This section will highlight the different features of Tribler, describe its architecture and go into related software.

1.2 Architecture

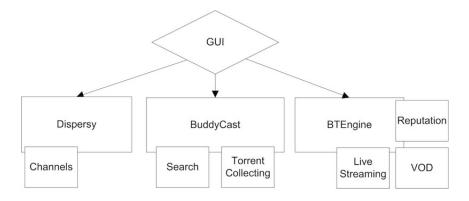


Figure 1.1: The architecture of Tribler

Tribler consists out of four major components as can also be seen in figure 1.1^2 :

- GUI: the graphical user interface.
- BTengine: the bittorrent engine.
- BuddyCast: a protocol for communication between peers
- Dispersy: a protocol similar in function to BuddyCast, but scalable.

¹www.tribler.org

²http://sigmm.org/records/records1201/featured03.html

- 1.2.1 GUI
- 1.2.2 Bittorrent
- 1.2.3 P2P communication

 $Tribler:\ A\ social-based\ Peer-to-Peer\ system\ paper\ https://github.com/Tribler/tribler/wiki\ http://iptps06.cs.ucsb.edu/papers/Pouw-Tribler06.pdf$

1.3 Features

1.4 Related Software

Chapter 2

P2P Streaming Protocol

- 2.1 Introduction
- 2.2 Protocols
- 2.2.1 Libtorrent
- 2.2.2 Bittorrent
- 2.2.3 Libswift
- 2.3 Trade-off
- 2.4 Conclusion

Chapter 3

Video Decoding

3.1 Introduction

Appendices

Appendix A

Appendices