



DEPARTMENT OF INFORMATICS

UNIVERSITY OF APPLIED SCIENCES DÜSSELDORF

Bachelor's Thesis in
Electrical-Engineering and Information Technology

Development of a Confined Spaces Dispatch Software for a Canadian Fire Brigade

André Kuhlmann



DEPARTMENT OF INFORMATICS

UNIVERSITY OF APPLIED SCIENCES DÜSSELDORF

Bachelor's Thesis in
Electrical-Engineering and Information Technology

Development of a Confined Spaces Dispatch Software for a Canadian Fire Brigade

Entwicklung einer Einsatzleitsoftware für beengte
Räume für eine kanadische Feuerwehrwache

Author: André Kuhlmann
Supervisor: Prof. Dr. rer. nat. Wolfgang Lux
Advisor: Frederik Feichtmeier B.Eng.
Submission date: yyyy-mm-dd

*I confirm that the submitted thesis is original work and
was written by me without further assistance.
Appropriate credit has been given where reference has
been made to the work of others.*

Düsseldorf, yyyy-mm-dd

Abstract

This work focuses on designing an application ecosystem for a Canadian fire department. As it is part of the critical infrastructure, safety and code quality is of main concern. The thesis will go over the complete development life cycle, from planning to the actual implementation of a Computer-Aided Dispatch software for confined spaces.

It is looked into the Canadian legislation to derive application flows and data structure from it. At the end the reader will have a thorough understanding of confined spaces and how to come up with a working application infrastructure.

Index Terms

Software Development - NG911 - Confined Spaces