

Index

Abstract	i
Kurzfassung	i
List of Figures	iv
List of Tables	v
Abbreviations	vi
1 Introduction	1
1.1 Purpose	2
1.2 Outline	2
1.3 Research Methodology	3
2 Literature Review	5
2.1 Collaborative Problem-Solving	6
2.2 Conversational Agents	13
2.3 Synthesis of the Literature Analysis	15
3 Empirical Analysis: Expert Interviews	17
3.1 Methodological Approach	17
3.2 Operationalization	17
3.2.1 Sampling	18
3.2.2 Experts	18
3.2.3 Data Processing and Analysis	18
3.3 Analysis of the Expert Interview	19
3.3.1 Description of Results	19
3.3.2 Discussion of the Results	28
3.4 Interview Summary	32
4 Assumptions from Empirical Research	33
4.1 Referencing the Research Questions	33
4.2 Criteria for the Development of an Agent	34
5 Prototyping the Agent	37

5.1 Process	37
5.2 Execution	38
5.2.1 Idea-Generation Stakeholder Requirements	38
5.2.2 Matching System Requirements	42
5.2.3 Development System Architectural Design	43
5.2.4 Implementation	44
5.3 Description of System Integration	48
5.4 Reflection of the Prototype's Creation	49
6 Results of this Master's Thesis	51
7 Discussion and Outlook	53
8 References	55
9 Appendix A – Interview Data	59
10 Appendix B – Technical Documentation	111