

Requirement Analysis and Specification Document RASD

KONG XIANGYI ZHANG YUEDONG

October 19, 2020

Contents

1	Introduction	1
1.1	Purpose	1
1.2	Scope	1
1.3	Definitions, acronyms, abbreviations	1
1.4	Reference documents	1
1.5	Overview	1
2	Overall Description	3
2.1	Product perspective	3
2.2	Product functions	3
2.3	User characteristics	3
2.4	Constraints	3
2.5	Assumptions and Dependencies	3
3	Specific Requirements	5
3.1	External Interface Requirements	6
3.1.1	User Interfaces	6
3.1.2	Hardware Interfaces	6
3.1.3	Software Interfaces	6
3.1.4	Communication Interfaces	6
3.2	Functional Requirements	6
3.2.1	User Class 1	6
3.2.2	User Class 2	6
3.3	Performance Requirements	6
3.4	Design Constraints	6
3.4.1	Standards compliance	6
3.4.2	Hardware limitations	6
3.5	Software System Attributes	6
3.5.1	Reliability	6
3.5.2	Availability	6
3.5.3	Security	6

3.5.4	Maintainability	6
3.5.5	Portability	6
3.6	Other Requirements	6

Chapter 1

Introduction

1.1 Purpose

1.2 Scope

1.3 Definitions, acronyms, abbreviations

1.4 Reference documents

1.5 Overview

Chapter 2

Overall Description

2.1 Product perspective

2.2 Product functions

2.3 User characteristics

2.4 Constraints

2.5 Assumptions and Dependencies

Chapter 3

Specific Requirements

3.1 External Interface Requirements

3.1.1 User Interfaces

3.1.2 Hardware Interfaces

3.1.3 Software Interfaces

3.1.4 Communication Interfaces

3.2 Functional Requirements

3.2.1 User Class 1

Functional Requirement 1.1

3.2.2 User Class 2

Functional Requirement 2.1

3.3 Performance Requirements

3.4 Design Constraints

3.4.1 Standards compliance

3.4.2 Hardware limitations

3.5 Software System Attributes

3.5.1 Reliability

3.5.2 Availability

3.5.3 Security

3.5.4 Maintainability

3.5.5 Portability