# **Design Specification**

# <System Name>

This	document	defines	the	<system></system>	that	is	proposed	to	serve	the
<orga< td=""><td>nization/dej</td><td>partment/</td><td>′unit&gt;</td><td>for the put</td><td>pose(</td><td>s) o</td><td>f &lt; &gt;. I</td><td>mpl</td><td>ementa</td><td>tion</td></orga<>	nization/dej	partment/	′unit>	for the put	pose(	s) o	f < >. I	mpl	ementa	tion
of the	e system is	schedule	d for	<date>. T</date>	he est	ima	ted initial	cost	of sys	tem
devel	opment is <	>.								

Written by:	
Version:	
Date:	

#### **Version Control:**

Version	Date	Scope of Change	Name	Signature	Chapter/Page

#### **Approval Path:**

Name	Company	Date	Signature

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#### 1. Goals

## 1. Goals

#### **1.0** Overview – Highlights

- **1.0.1 Introduction**
- 1.0.2 Document Overview
- 1.0.3 Glossary
- 1.1 Client / Main User
- **1.2 Goals and Objectives**
- 1.3 Problems
- **1.4 Organizational Context**
- 1.5 Time Frame
- 1.6 Feasibility and Risks Analysis
  - **1.6.1** Risks project feasibility
  - **1.6.2** Cost/benefit business feasibility
  - 1.6.3 Product Risk management

## 2. Application

#### 2.0 Overall Architecture – Highlights

2.0.1 Architecture Design Chart (PM 3.5)

#### 2.1 Main Characteristics

- 2.1.1 Software Description (PM 3.2)
- 2.1.2 Operational Environment (PM 3.2.2)
- 2.1.3 Device Features Controlled by Software (PM 3.2.1)

#### 2.1.4 Constraints

**2.1.4.1 Regulation objectives** 

#### 2.2 Users and Interfacing Systems

#### 2.3 Subsystems

- 2.4 Operational Interface
- 2.5 Processes

#### 2.6 Transactions

2.7 Modules (Programs)

## 2.8 Control Procedures

## 2.9 Subroutines (Common Objects)

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#### **2.10 Coding Tables**

- 2.11 Data Modeling (Logical Files)
- 2.12 Database (Physical Files)
- 2.13 Data Dictionary (Fields)
- 2.15 Reports (and Queries)

#### 2.16 Input (Forms)

#### 2.18 Safety Requirements

- 2.18.1 Startup Requirements
- 2.18.2 Shutdown Requirements
- 2.18.3 Failure and Recovery Requirements
- 2.18.4 Sensors and Alarms Requirements
- 2.18.5 Maximum and minimum ranges of allowed values
- 2.18.6 Error Handling Requirements
- 2.18.7 Safety Certification Standards Requirements

## 2.19 Security and Privacy

## 2.20 Traceability Matrix

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#### 2.21 Workload, Performance, and Capacity

## 2.22 External Interfaces and Links

### 2.23 Special Requirements

#### 2.24 Design Control Requirements

- 2.24.1 § 820.30(a) Design Control General
- 2.24.2 § 820.30(b) Design and development planning
- 2.24.3 § 820.30(c) Design input
- 2.24.4 § 820.30(d) Design output
- 2.24.5 § 820.30(e) Design review
- 2.24.6 § 820.30(f) Design verification
- 2.24.7 § 820.30(g) Design validation
- 2.24.8 § 820.30(h) Design transfer
- 2.24.9 § 820.30(i) Design changes
- 2.24.10 § 820.30(j) Design history file

**3. Technology** and Infrastructure

## 3. Technology and Infrastructure

- 3.0 Architecture Overview and Highlights
- 3.1 Hardware Components
- 3.2 Software Components
- 3.3 Peripherals
- 3.4 Special Equipment
- 3.5 Off-the-shelf Software
- 3.6 Consumables
- 3.9 Communications
- 3.10 Operating System
- 3.11 Database Management System (DBMS)
- 3.13 Development and Maintenance Tools
  - 3.13.1 Development standards and programming standards (PM 3.6 B2)
- **3.15 Operation and Production Tools**

#### 4. Implementation

## 4. Implementation

- 4.0 Overview Highlights
- 4.1 Parties Involved
- 4.2 Work Plan
  - 4.2.0 Development Methodology
  - 4.2.1 Overall Development Plan
  - 4.2.2 Detailed Plan
- 4.3 Next/Immediate Phase
- 4.4 Ongoing Operation
- 4.5 **Documentation Index** 
  - 4.5.1 Operational documentation
  - 4.5.2 Development process documentation
- 4.6 Service and Maintenance
  - 4.6.1 Help desk Call center
  - 4.6.2 Application maintenance
  - 4.6.3 Infrastructure and technology maintenance
  - 4.6.4 Ongoing Implementation
  - 4.6.5 Everyday costs
- 4.7 Integration into the Organization Deployment

#### 4.8 Robustness and Reliability

- 4.8.1 Testing plan
- 4.8.2 Availability and survivability
- 4.8.3 Scope of Validation

#### 4.8.3.1 In-Scope

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#### 4.8.3.2 Out-of-Scope

#### 4.8.4 Related Validation

#### 4.9 Configurations

- **4.9.0** List of configurations (installations)
- 4.9.1 Development and Testing configuration
- 4.9.2 Main (central) configuration primary server
- **4.9.***X* Additional site configuration / distributed configuration *X*

#### 4.98 Open Issues (and Alternatives)

#### 4.99 Future Plans

## 5. Cost - Resources

#### 5.0 Executive Summary of Costs — Highlights

### 5.1 Set-Up Cost (Development and Installation)

- 5.1.1 First/upcoming version or delivery unit
- 5.1.2 Additional versions and delivery units
  - 5.1.2.1 <first delivery unit>

5.1.2.*x* <subsequent delivery unit>

#### 5.2 Ongoing Costs

- 5.2.1 First (upcoming) version or delivery unit
- 5.2.2 Additional versions and delivery units
- 5.3 Cost by Configuration
- 5.4 Price List

#### 5.5 Cost Summary

- 5.5.1 Cost of ownership
- 5.5.2 Cost scheduling
- 5.98 Open Issues (and Alternatives)
- 5.99 Anticipated Future Costs