System Component Tree Level 3

<System Name>

This document defines the <system> that is proposed to serve the <organization/department/unit> for the purpose(s) of < >. Implementation of the system is scheduled for <date>. The estimated initial cost of system development is < >.

|  |  |  |  |
| --- | --- | --- | --- |
| System ID Code: |  | |  |
| Project Manager: |  | |  |
| Client/Application Expert: |  | |  |
| Anticipated system size: | S1/S2/S3 | |  |
| Documentation written by: |  | Date: |  |
| Verification and QA by: |  | Date: |  |
| Final review at: | <Location> | Date: |  |
| Participants: |  |  |  |
|  |  |  |  |
|  |  |  |  |

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# Executive Summary

For further information please refer to the study template

### 1. Goals

### 2. Application

### 3. Technology and Infrastructure

### 4. Implementation

### 5. Cost and Resources

# 0. Administration

For further information please refer to the study template

## 0.0 Overview

## 0.1 Parties involved

## 0.2 Work Plan

## 0.3 Tools and Work Procedures

## 0.4 Configuration Management and Change Control

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date | Version/Base | Section No. | Description of Change | Approval |
|  |  |  |  |  |
|  |  |  |  |  |

## 0.5 Approvals

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date | Name/Title | Representing (unit) | Comments | Signature |
|  |  |  |  |  |
|  |  |  |  |  |

# 1. Goals

For further information please refer to the study template

## 1.0 Overview – Highlights

## 1.1 Client / Subject Expert

### 1.1.1 Client / Main user

### 1.1.2 Subject expert(s)

### 1.1.3 User teams

## 1.2 Goals & Objectives

### 1.2.1 General goals

### 1.2.2 Specific objectives

### 1.2.99 Future objectives

## 1.3 Problems

### 1.3.0 Summary of current problems

### 1.3.1 Problems that the system should/does solve

### 1.3.2 Problems that the system might/does cause

### 1.3.99 Problems for postponement

## 1.4 Organizational/Business Context

### 1.4.1 Organizational goals and strategy

### 1.4.2 Organizational chart and structure

### 1.4.3 Implications for Organization and Methods

## 1.5 Annual Work Plan

### 1.5.1 Budgetary/business approval

### 1.5.2 Dependence on other systems

## 1.6 Feasibility and Cost/Benefit

### 1.6.1 Risks – project feasibility

### 1.6.2 Cost/benefit – business feasibility

## 1.7 Time Frame

### 1.7.1 Deliverables

### 1.7.2 Drop-dead date

### 1.7.3 System lifespan

## 1.98 Open Issues

## 1.99 Future Goals

# 2. Application

For further information please refer to the study template

## 2.0 Overall Architecture – Highlights

## 2.1 Main Attributes

### 2.1.1 Current situation

### 2.1.2 Type of system

### 2.1.3 Constraints

### 2.1.4 Glossary

## 2.2 Users & interfacing Systems

### 2.2.0 System Scope

### 2.2.1 Users

### 2.2.2 Interfacing Systems

## 2.3 Internal Subsystems

### 2.3.0 System layout

### 2.3.1 Subsystem/Delivery Unit 1

### 2.3.2 Subsystem/Delivery Unit 2

### 2.3.*N* Subsystem/Delivery Unit *N*

## 2.4 User Experience

### 2.4.0 Human-engineering guidelines

### 2.4.1 Menu screens – Site Map

### 2.4.2 Work screens

## 2.5 Processes

### 2.5.0 General Index

### 2.5.1 <name of first process>

#### 2.5.1.1 <name of first subprocess>

### 2.5.2 <name of first process>

## 2.6 Transactions

### 2.6.0 Index of transactions

### 2.6.*X* <transaction name>

## 2.7 Modules (Programs)

### 2.7.1 Source modules

### 2.7.2 Executable modules

## 2.8 Control Procedures

## 2.9 Subroutines (Common Objects)

### 2.9.1 Private subroutines

#### 2.9.1.*X* <subroutine name>

### 2.9.2 Organizational subroutines

### 2.9.3 Third-party subroutines

## 2.10 Coding Tables

### 2.10.1 Private coding tables

#### 2.10.1.*X* <coding table name>

### 2.10.2 Organizational coding tables

### 2.10.3 Third-party coding tables

## 2.11 Data Modeling (Logical Files)

### 2.11.0 Overall – Data model

### 2.11.*X* <name of logical file>

## 2.12 Database (Physical Files)

### 2.12.0 Overall model

### 2.12.*X* <name of physical file>

## 2.13 Data Items

### 2.13.0 General index

### 2.13.1 Local fields

### 2.13.2 Organizational fields

### 2.13.3 Global fields

## 2.15 Reports (and Queries)

### 2.15.0 Index of reports

### 2.15.*X* <name of group of reports>

#### 2.15.*X*.0 Index

#### 2.15.*X*.*N* <name of report in group *X*>

### 2.15.*X* <name of report>

## 2.16 Input (Forms)

## 2.19 Information Security & Privacy

### 2.19.0 Overall – Highlights

### 2.19.1 Exposure and risks

### 2.19.2 Security measures

### 2.19.3 Security administration

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## 2.21 Workload, Performance, and Capacity

## 2.22 Interfaces & Links Index of interfaces and links

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## 2.23 Special Requirements

## 2.98 Open Issues and Alternatives

## 2.99 Future Requirements

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For further information please refer to the study template

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## 3.2 Data Storage

## 3.3 Peripherals

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## 3.5 Consumables

## 3.9 Passive infrastructure

### 3.9.1 Main site

### 3.9.2 Backup site

### 3.9.3 Safety requirements

## 3.10 Operating System

## 3.11 Database Management System (DBMS)

## 3.13 Develop & Maint. Tools

## 3.14 Off-the-shelf Software

### 3.14.1 Utility software

### 3.14.2 Application Software

## 3.15 Operation Tools

### 3.15.1 Production for operators and for production managers

### 3.15.2 Management and control tools for system managers

## 3.20 Hardware – Client Computer

## 3.21 Client Infrastructure

## 3.22 Client Applications

## 3.30 Private/Local Area Network

## 3.31 Private / Wide Area Network

## 3.32 Public Network

## 3.33 Interfacing Technologies

## 3.98 Open Issues and Alternatives

## 3.99 Future Technologies

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## 4.1 Parties Involved

### 4.1.1 Management

### 4.1.2 Professional teams – Development teams

### 4.1.3 Technical Support

### 4.1.4 Vendors and other outsiders

## 4.2 Work Plan

### 4.2.0 Development Methodology

### 4.2.1 Overall Development Plan

### 4.2.2 Detailed Plan

## 4.3 Next Phase

## 4.4 Ongoing Operation

## 4.5 Documentation

### 4.5.1 Operational documentation

| Document Title | MethodA Section number | Reference to Documentation | General Status |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |

### 4.5.2 Development process documentation

|  |  |  |  |
| --- | --- | --- | --- |
| Document Title | Kit/Template | Doc. Reference | General Status |
|  |  |  |  |
|  |  |  |  |

## 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 Deployment

### 4.7.1 Commissioning

### 4.7.2 Migration and Conversion

### 4.7.3 Organization and methods

### 4.7.4 User’s guide

## 4.8 Robustness and Reliability

### 4.8.1 Testing plan

### 4.8.2 Availability and survivability

## 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

For further information please refer to the study template

## 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

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Unit price | Quantity | Total cost |
|  |  |  |  |
|  |  |  |  |

## 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

# Appendices

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## Appendix 1.6.2: Cost/Benefit Analysis

## Appendix 2.7.1: Source Modules

### 2.7.1.*X* <name of source module>

## Appendix 4.2: Work Plan

## Appendix 5.1: Estimated Set-Up Cost

## Appendix 98: Open Issues – Alternatives Analysis

## Appendix 99: Future Requirements

## Appendix *X*.*Y*