

<Client Name>

<Proposed Application Name>

System Specification
Volume 1

Application Architecture

Prepared by
The Data Organization

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DRAFT

Table of Contents

1. CHANGE LOG.....	3
2. INTRODUCTION	4
2.1 PURPOSE OF THE DOCUMENT.....	4
2.2 SCOPE OF THE DOCUMENT.....	4
2.3 ORGANIZATION OF THE DOCUMENT	4
3. SYSTEM OVERVIEW	5
3.1 PERSPECTIVE	5
3.2 SCOPE OF APPLICATION.....	5
3.3 CONTEXT.....	5
3.4 ASSUMPTIONS	5
3.5 RISKS.....	5
4. PROCESS ARCHITECTURE	6
4.1 INTRODUCTION.....	6
4.2 PROCESS CONTEXT DIAGRAM	6
4.3 FLOW CHART COMPONENTS.....	6
4.4 APPLICATION SCOPE DIAGRAM	6
4.5 PROCESS MODEL COMPONENTS	6
5. DATA ARCHITECTURE	7
5.1 INTRODUCTION.....	7
5.2 CONCEPTUAL DATA MODEL.....	7
5.3 DATA MODEL COMPONENTS	7
5.4 DATABASE MANAGEMENT SYSTEM	7
5.5 DATA INTERFACES	7
6. PHYSICAL ARCHITECTURE	8
6.1 INTRODUCTION.....	8
6.2 HARDWARE ARCHITECTURE.....	8
6.3 DATABASE COMPONENTS.....	8
6.4 PROCESSING COMPONENTS	8
6.5 NETWORK COMPONENTS.....	8
6.6 END USER COMPONENTS.....	8
7. SYSTEM CONTROLS	9
7.1 INTRODUCTION.....	9
7.2 SECURITY	9
7.3 NAMING	9
7.4 SEARCHING	9
7.5 REPORTING.....	9
7.6 AUDITING	9
7.7 ARCHIVING.....	9
7.8 PURGING.....	9
8. SYSTEM CONSTRAINTS	10
8.1 DESIGN	10
8.2 PERFORMANCE	10

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9. IMPLEMENTATION	11
9.1 HARDWARE	11
9.2 MIDDLEWARE.....	11
9.3 DEVELOPMENT ENVIRONMENT.....	11
9.4 USER INTERFACES	11
9.5 SOFTWARE MAINTENANCE.....	11

1. CHANGE LOG

Date	Description	Author
11 Oct 05	Created document	Rainer Schoenrank

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2. INTRODUCTION

2.1 Purpose of the Document

The *Application Systems Architecture* states the business problem to be solved, gives the context of the problem and presents the overview of a solution to the problem. The systems architecture document is the primary document of the system that will solve the business problem. The solution system is embodied in its components, their relationships to each other and the computing environment, and the principles guiding the system's design and evolution. This document describes the results of the policy decisions that created the application processing, the hardware and network environment, the data base concepts, and the organization of the business application environment.

2.2 Scope of the Document

The scope of the document is limited to the architectural framework and conceptual solution for the business problem. This document outlines the conceptual systems architecture. This architecture is based on the principles and policies for using information technology to meet the business requirements. It serves as a reference for management and other interested parties to make sure that the ongoing decisions for the solution application are consistent with the underlying architectural frameworks.

The complete documentation for the solution project is in a set of three documents:

1. Application Architecture
2. Database Specification
3. Functional Specification

Each document assumes that you know of the existence of the entire set and you are familiar with the contents of each document.

2.3 Organization of the Document

INTRODUCTION specifies the purpose, scope and organization of this document.

SYSTEM OVERVIEW describes the business problem being solved, context of the business problem, its required functionality, and the organization of the business processes.

PROCESS ARCHITECTURE describes the solution primary business processes and how they work together to support the required functionality.

DATA ARCHITECTURE describes the organization of the data underlying the solution processing and how the data is defined, collected and moved between the business processes.

PHYSICAL ARCHITECTURE describes the network environment, hardware, and system services in which the solution business application will operate.

IMPLEMENTATION STRATEGY describes how the application will be developed and rolled out to its users.

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3. SYSTEM OVERVIEW

3.1 Perspective

3.2 Scope of Application

3.3 Context

3.4 Assumptions

3.5 Risks

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4. PROCESS ARCHITECTURE

4.1 Introduction

4.2 Process Context Diagram

4.3 Flow Chart Components

4.4 Application Scope Diagram

4.5 Process Model Components

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5. DATA ARCHITECTURE

5.1 Introduction

5.2 Conceptual Data Model

5.3 Data Model Components

5.4 Database Management System

5.5 Data Interfaces

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6. PHYSICAL ARCHITECTURE

6.1 Introduction

6.2 Hardware Architecture

6.3 Database Components

6.4 Processing Components

6.5 Network Components

6.6 End User Components

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7. SYSTEM CONTROLS

7.1 Introduction

7.2 Security

7.3 Naming

7.4 Searching

7.5 Reporting

7.6 Auditing

7.7 Archiving

7.8 Purging

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8. SYSTEM CONSTRAINTS

8.1 Design

8.2 Performance

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9. IMPLEMENTATION

9.1 Hardware

9.2 Middleware

9.3 Development Environment

9.4 User Interfaces

9.5 Software Maintenance

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