# <System Name >

# Technical Specification


PO Box 2
Pinecraft • Pinetown 3617
Phone (031) 7027883 • Fax 0880317027883

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# INTRODUCTION

## Background

The next step in the design process is to produce the "technical" system design specifications, i.e. adding the physical detail of **how** the system will work. This document is mainly used by the **application developers** (including all of the IT components, i.e., database, communications, etc.) and therefore has a primarily physical (as opposed to logical) view of the system. The ownership of this document lies with the development team. In some instances the business analyst will also provide input to this document, although most of the "technical detail" provided for the design specification by the business analyst will be included in the Business Specifications.

Using the Business Specification as a starting point, the team will begin documenting the technical system design, including the physical database design and the programming logic specifications. This documentation may be produced incrementally to coincide with the increments of the Business Specification. Clearly this documentation has an important role in all future maintenance and enhancements to the application system.

## Purpose of Document

This document outlines the #### System at COMPANY ("COMPANY"), for the upgrade and replacement of the ....

## Confidentiality

The scope and nature of the ### System and related information must be treated with the strictest of confidence and may not be divulged to third parties without the consent of the Project Manager.

# APPLICATION DESIGN

## Physical Database Schema

### Relational Data Model

At the User Requirements stage, it will often be useful for the Business Analyst to perform a function point analysis of the desired system. In order to do the FPA, the following information is required:

I. Logical data files read by the system, but maintained by another system, including
   1. number of attributes
   2. number of logical record types

II. Logical data files created and maintained by the system being counted, including
   1. number of attributes
   2. number of logical record types

III. Elementary processes within the system:
   1. those which read external data, including
      a) number of attributes maintained
      b) number of data files read or updated
   2. those which create external data, including
      a) number of attributes output
      b) number of data files read

IV. Enquiries, including
   1. number of attributes input and extracted
   2. number of data files read

If data flow diagrams have been used to document the process flows, and a logical ERD or Object Model to document the data requirements, then the components of these diagrams can be translated into the above as follows:

| | |
|---|---|
| EIF | Data stores and sources on DFD |
| ILF | Data stores on DFD and tables in ERD or Objects on Object Model |
| EI | The group of processes triggered by a business event |
| EO | The group of processes triggered by a business event |

## Client-server Partitioning

### Detailed Object Interaction Diagrams

### State Transition Diagrams

## Logical Program Design

### System Integration Rules

Collaboration Diagrams

### System Architecture

Refined and Updated Object Models

### Technical Test Cases

## INFRASTRUCTURE

### Operating Environment

Imposes limitations. We cannot change.

### Networks

### Hardware

Dependent on external factors.

### Software

# FUNCTIONAL REQUIREMENTS

## Screen Designs

## Report Designs

## Data Requirements

*Business rules and relationships. Attributes, Field sizes/lengths, values for codes/flags*

*Tables for calculations/ratings*

## Security Requirements

# GLOSSARY

# ACCEPTANCE FORM

## Specification Sign Off

**DATE :** 31 March 1999

**TO :** Client

**SUBJECT :** Technical Specification

In terms of COMPANY Systems Development Life cycle, the enclosed specification is to be duly checked by yourself and should it cover all the aspects of your business in accordance with the Terms of Reference supplied to us, your signature at the bottom of this page would indicate your satisfaction and the document will be handed over to a System Leader to provide an Estimate of Effort and to allocate the necessary resources.

Regards

*NAME*

This Specification has been studied and is duly signed off as completed and correct.

_____ _____

Signature Date