

intelligent Revenue Enhancement and Protection Solution

*i*REPS

by F Kentane

ireps bible v0.1 230601

Short Table of Contents

1	Introduction	6
2	What is iREPS	6
3	What inspired iREPS.....	6
4	The Energy paradigm in SA	6
5	The Problem Space - Challenges	6
6	Solutions – iREPS.....	7
7	iREPS Philosophy	7
8	iREPS architecture	7
9	iREPS users	8
10	iREPS Key Data Components.....	8
11	iREPS user interface	9
12	Partner Network	9
13	iREPS Development Strategy and Sustainability over time	9
14	Why would you want to use iREPS.....	10
15	Appendix	10

Table of Contents

1	Introduction	6
2	What is iREPS	6
3	What inspired iREPS.....	6
4	The Energy paradigm in SA	6
5	The Problem Space - Challenges	6
5.1	Local gov revenue model.....	6
5.2	The Energy Distribution Network Problems.....	6
5.3	Billing System at local gov level	6
5.4	Revenue Collection.....	6
5.5	Eskom Billing at local gov	6
6	Solutions – iREPS.....	7
6.1	The HR	7
6.2	The Processes	7
6.3	The Technology.....	7
7	iREPS Philosophy	7
7.1	Best User Experience.....	7
7.2	Latest Web Technologies.....	7
7.3	Sustainability	7
7.4	Give back to community.....	7
8	iREPS architecture	7
8.1	The Client Systems	7
8.2	The Server Systems	8
8.3	iREPS Technologies	8
8.4	Built-in Security	8
9	iREPS users	8
9.1	User Roles.....	8
9.1.1	Trial User	8
9.1.2	Full user.....	8
9.2	Municipal Customers.....	8
10	iREPS Key Data Components.....	8

10.1	Cadastral data	8
10.2	Deeds Office Data	8
10.3	Field Data	8
10.3.1	Automatically Acquired Field Data.....	8
10.3.2	User Acquired Field Data	8
11	iREPS user interface	9
11.1	Authentication System.....	9
11.2	Assets.....	9
11.3	Transactions.....	9
11.4	Dashboard.....	9
11.5	Supply Chain	9
11.6	Cadastral Data Management	9
11.7	iREPS Body of Knowledge	9
11.8	Admin.....	9
12	Partner Network	9
12.1	Energy Network Assets Partners	9
12.2	Electricity Vending Partners.....	9
12.3	Academic Institutions	9
13	iREPS Development Strategy and Sustainability over time	9
14	Why would you want to use iREPS.....	10
14.1	Data Cleansing	10
14.2	Manage and Track Assets	10
14.3	Enhance and Optimize Revenue Collection.....	10
14.4	Electricity Vending	10
14.5	Manage and Prevent Meter Tempering	10
14.6	Debt Collection	10
14.7	Electronic Municipal Invoice Delivery.....	10
14.8	Remit Municipal Bills/Invoices.....	10
14.9	Credit Control	10
14.10	Instant Access to iREPS data	10
15	Appendix	10
15.1	Data dictionary	10

1 Introduction

2 What is iREPS

3 What inspired iREPS

4 The Energy paradigm in SA

5 The Problem Space - Challenges

5.1 Local gov revenue model

5.2 The Energy Distribution Network Problems

5.3 Billing System at local gov level

5.4 Revenue Collection

5.5 Eskom Billing at local gov

6 Solutions – iREPS

Solution strategy – Three pillars

6.1 The HR

6.2 The Processes

6.3 The Technology

7 iREPS Philosophy

7.1 Best User Experience

Material UI

7.2 Latest Web Technologies

Google Analytics

Artificial Intelligence

Machine Learning

7.3 Sustainability

7.4 Give back to community

8 iREPS architecture

8.1 The Client Systems

8.2 The Server Systems

8.3 iREPS Technologies

8.4 Built-in Security

9 iREPS users

9.1 User Roles

9.1.1 Trial User

9.1.2 Full user

9.1.2.1 *Super User*

9.1.2.2 *Manager Roles*

9.1.2.3 *Supervisor*

9.1.2.4 *Field Worker*

9.2 Municipal Customers

10 iREPS Key Data Components

10.1 Cadastral data

10.2 Deeds Office Data

10.3 Field Data

10.3.1 Automatically Acquired Field Data

10.3.2 User Acquired Field Data

11 iREPS user interface

11.1 Authentication System

11.2 Assets

11.2.1.1 The Tabular View – iREPS Assets Table

11.2.1.2 The Spatial view – iREPS Assets Map

11.2.1.3 The Hierarchical View – iREPS Assets Tree

11.3 Transactions

11.4 Dashboard

11.5 Supply Chain

11.6 Cadastral Data Management

11.7 iREPS Body of Knowledge

11.8 Admin

12 Partner Network

12.1 Energy Network Assets Partners

12.2 Electricity Vending Partners

12.3 Academic Institutions

13 iREPS Development Strategy and Sustainability over time

14 Why would you want to use iREPS

14.1 Data Cleansing

Update customer data in the billing system

14.2 Manage and Track Assets

Track assets from procurement to delivery at stores,

Track assets checked out from stores to installation in the field

Monitor field assets via Advanced Metering Infrastructure (AMI)

14.3 Enhance and Optimize Revenue Collection

Customer Tariff management

14.4 Electricity Vending

Provide third parties with a electricity vending platform

14.5 Manage and Prevent Meter Tempering

Respond promptly to meter temper alarms thereby eliminating electricity theft

14.6 Debt Collection

Link customer aged debts to vending system for an optimal debt collection

14.7 Electronic Municipal Invoice Delivery

14.8 Remit Municipal Bills/Invoices

14.9 Credit Control

Automate management of electricity cutoff (disconnections) and reconnections

14.10 Instant Access to iREPS data

Client (Municipality) access to iREPS online for immediate and up-to-date data and reports

15 Appendix

15.1 Data dictionary

Here you find all the terms used in this document clearly defined

